

COM3000 SNMP

User Manual & Command Reference Guide



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USA requirements only**Federal Communications Commission (FCC) Compliance Notice: Radio Frequency Notice**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

European requirements only**EN 55 022 statement**

This is to certify that the SimpleComTools COM3000-SNMP is shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC, Article 4a. Conformity is declared by the application of EN 55 022 Class B (CISPR 22).

Canada requirements only**Canadian Department of Communications Radio Interference Regulations**

This digital apparatus does not exceed the Class B limits for radio-noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Règlement sur le brouillage radioélectrique du ministère des Communications

Cet appareil numérique respecte les limites de bruits radioélectriques visant les appareils numériques de classe B prescrites dans le Règlement sur le brouillage radioélectrique du ministère des Communications du Canada.

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SECTION 1: INTRODUCTION

Preface

The COM3000-SNMP is part of the SimpleComTools Industrial Internet Appliance family. The COM3000-SNMP is an iteration of the standard COM3000 with firmware supporting the sending of Digital and Analog alarms via SNMP traps. In this guide, the COM3000 may also be referred to as *'the device'*. This guide provides instructions on how to install the COM3000, and how to install and replace other devices that may interface with the various inputs or interfaces available in the COM3000. This guide also includes technical specifications.

Before you begin


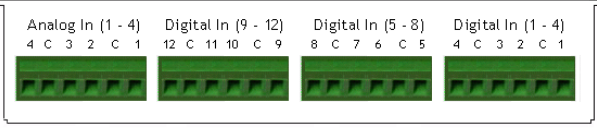
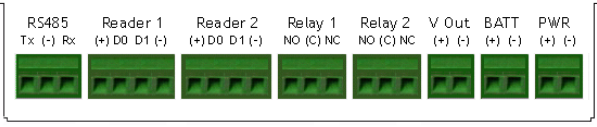
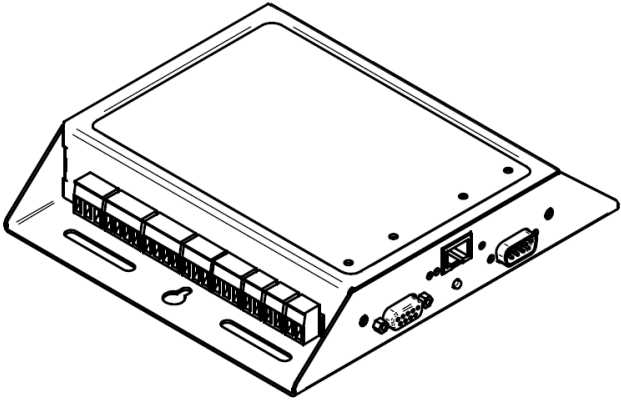
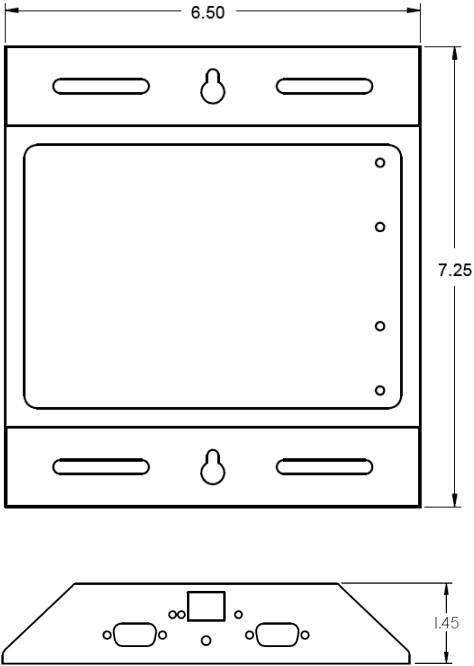
This guide is intended for qualified service personnel who are installing the COM3000 for the first time or who need to install a switch, gauge, modem, or other device to an existing COM3000. However, before you install anything related to the COM3000, make sure that the proper cables have been selected and/or the required network cabling has been installed using standard cable system practices.

Acronyms

This guide uses the following acronyms:

CTS	clear to send
DCD	data carrier detect
DCE	data communications equipment
DSR	data set ready
DTE	data terminal equipment
DTR	data terminal ready
GND	ground
IP	Internet Protocol
LAN	local area network
LED	light emitting diode
MAC	media access control
NMS	network management system (or station)
NC	normally closed
NO	normally open
OID	object identifier
PPP	point-to-point protocol
PSTN	public switched telephone network
RTS	ready to send
RX	receive data
SNMP	simple network management protocol
TX	transmit data
URL	uniform resource locator
VPN	virtual private network
WAN	wide area network

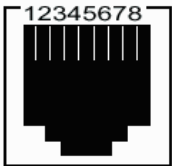
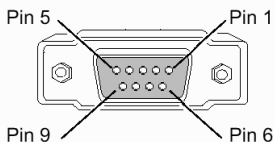
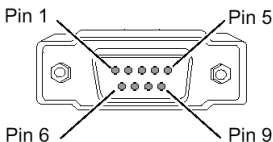

SECTION 2: HARDWARE DESCRIPTION

Top Side	Overhead View
('Top' = Side that has Digital and Analog Input Terminal Strips)	
 <p> Analog In (1 - 4) 4 C 3 2 C 1 Digital In (9 - 12) 12 C 11 10 C 9 Digital In (5 - 8) 8 C 7 6 C 5 Digital In (1 - 4) 4 C 3 2 C 1 </p>	
Bottom Side	
('Bottom' = Side that has Terminal Strips and Power Input)	
 <p> RS485 Tx (-) Rx Reader 1 (+) D0 D1 (-) Reader 2 (+) D0 D1 (-) Relay 1 NO (C) NC Relay 2 NO (C) NC V Out (+) (-) BATT (+) (-) PWR (+) (-) </p>	
	

Communication interfaces

The COM3000 provides the following communication interfaces:

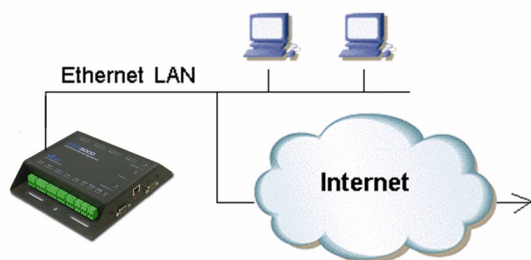
- One 10 BASE-TX Ethernet interface
- One RS232 Serial Terminal (DCE) Port
- One RS232 Serial Modem (DTE) Port
- One RS485 Port

Ethernet Port (10 Base TX)	Female DB9 RS232 DCE Port (Terminal Port)	Male DB9 RS232 DTE Port (Modem Port)	RS485
			
<p>This port is used to connect to an LAN HUB or Switch.</p> <p>To connect to LANs, use a regular Ethernet cable. To connect direct to a PC, you will need a crossover cable.</p>	<p>This port is used to connect to a computer or terminal</p> <p>To connect a PC, you will need a regular serial cable. To connect a DCE, you will need to use a null adapter.</p>	<p>This port is used to connect to a modem or DCE.</p> <p>To connect a modem, you will need a regular serial cable. To connect a PC, you will need a null adapter.</p>	<p>Located on the bottom side, this port is for RS485 only.</p> <p>Supports master or slave connections. Wiring requirements differ based upon device network.</p>

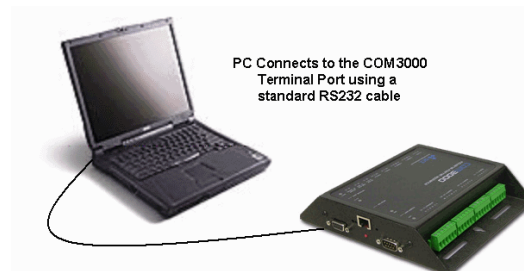
LAN interface connections

The 10 BASE-TX connection is used for connections to any Ethernet LAN. This type of installation requires the use of Category 5 twisted-pair wire. The 10BASE-TX interface complies with the EIA 568 wiring standard.

Sample Ethernet Connections



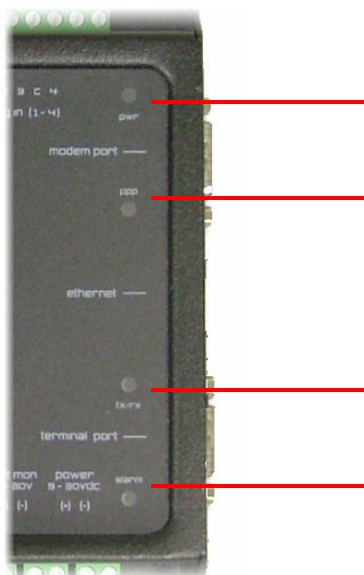
COM3000 connected to an Ethernet LAN



COM3000 connected to a PC using a crossover cable

Status Lights

The label side of the COM3000 has (4) LEDs that indicate the status of the unit.

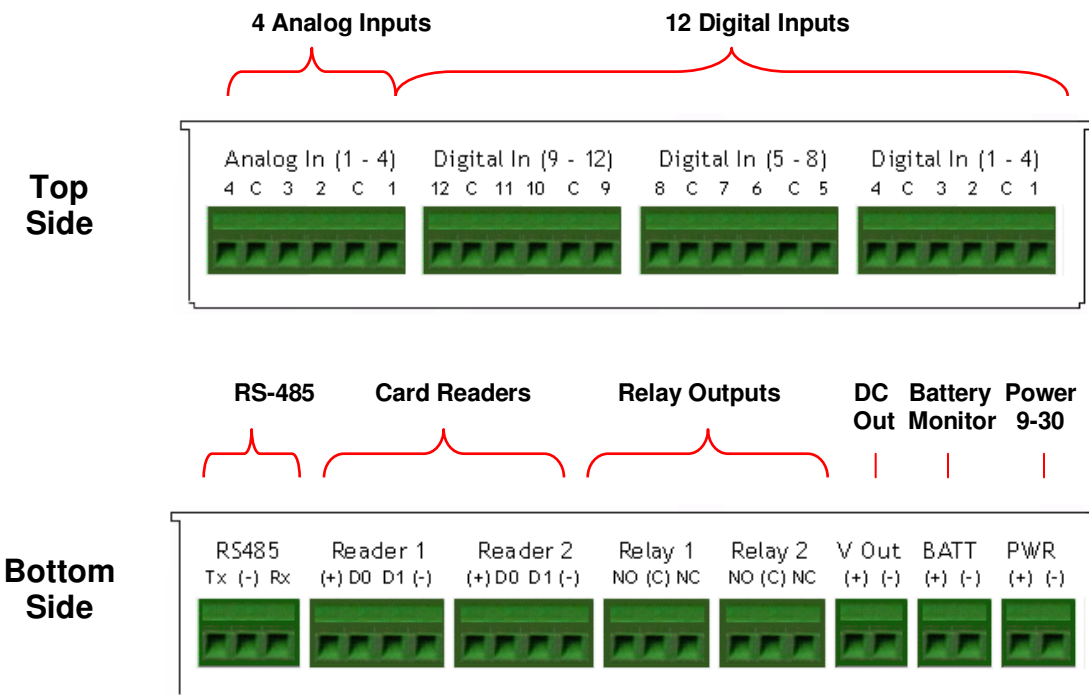


LED	Description
Power	Unit is currently powered on.
PPP	Unit is currently engaged in an active PPP session on the RS232 Modem (DTE) Port
Serial TX	Unit is currently communicating with a serial device on the RS232 Terminal (DCE) Port
Alarm	Unit is currently in alarm and awaiting NMS acknowledgement

Sensor Interfaces

The COM3000-SNMP provides the following hardware interfaces:

- (12) Digital Inputs
- (4) Analog inputs
- (2) Relay Outputs
- (2) Wiegand Card Reader Inputs
- (1) Battery Monitor Input
- (1) Voltage Output


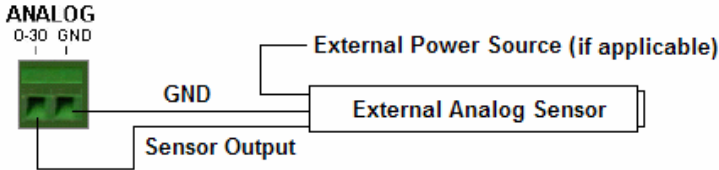
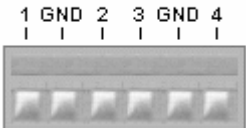
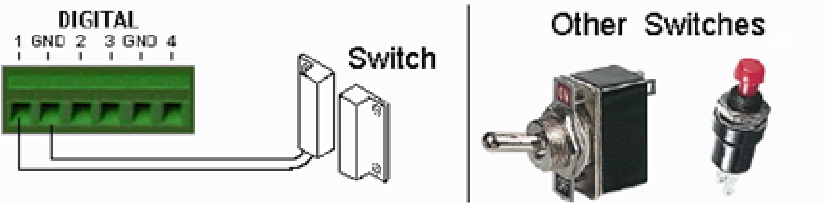

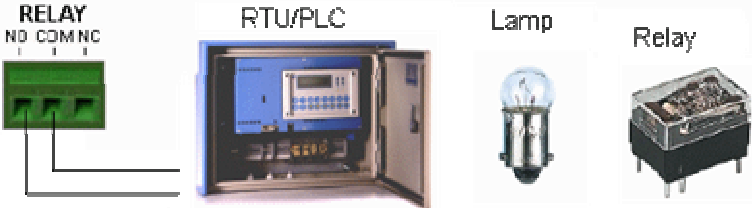


Connecting Sensors, Switches, or Devices

The COM3000-SNMP provides the following hardware interfaces:

- One Analog Input
- Four Digital Inputs
- One Relay Input

The following describes how to wire sensors, switches or controls to these inputs.

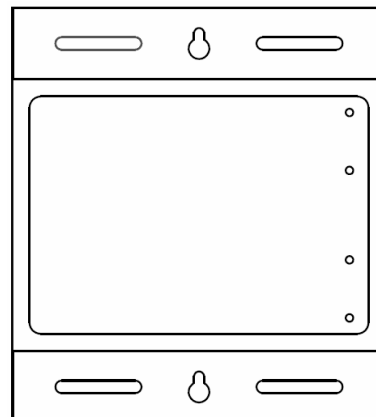
 <p>analog 0-30 GND</p>	<p>The ANALOG interface has the ability to accept any sensor with a DC voltage output ranging between 0 and 30 volts. (Examples of acceptable sensor ranges would include 1-5, 0-10, 0-12, 0-30, etc). The analog interface has two inputs; the leftmost input (labeled 0-30) is where you place the sensor's POSITIVE or OUTPUT line. The rightmost input (labeled GND) is where you connect the sensor's ground wire.</p> 
 <p>digital 1 GND 2 3 GND 4</p>	<p>The DIGITAL interface is designed to connect up to (4) dry contact closures. The interface provides (6) wire inputs; (4) switch inputs and (2) grounds (GND). Switches are connected across any of the inputs (labeled with numbers 1,2,3,4). The grounds (labeled with GND) are used as commons, and are where you connect the second switch wire. The reasons for only (2) commons is because you can share the GND inputs between switches 1 and 2 or switches 3 and 4. The following is a wiring example:</p>  <p>NOTE: The digital inputs are self powered and require dry contact closures. Applying voltage to the inputs may result in permanent damage to the unit.</p>
 <p>relay NO COM NC</p>	<p>The RELAY is designed to switch currents (120VAC/1A, 24VDC/2A). In a sense, the RELAY can act as a contact closure or switch for any external device. It can be used to trigger another device with a digital input, or even another relay. The relay connections are labeled as Normally Open (NO), Common (COM), and Normally Closed (NC). When wiring, connect your wires to the NO and COM if you want the switched circuit to be CLOSED when the relay is ACTIVATED. Connect your wires to NC and COM if you want the switched circuit to be OPEN when the relay is ACTIVATED.</p> 

Installation Requirements and Instructions

Mounting:

The COM3000 has (4) slotted mounting holes and (2) oval mounting holes for easy mounting and installation. You can use either wood or sheet metal screens, hooks, or other common fasteners to mount or hang the device.

The (4) slotted mounting holes and (2) oval mounting holes may be mounted to sheet metal, wood, or plastic. Simply place or hang the COM3000 on a flat surface and insert your fastener of choice through any of these base-mounting holes.

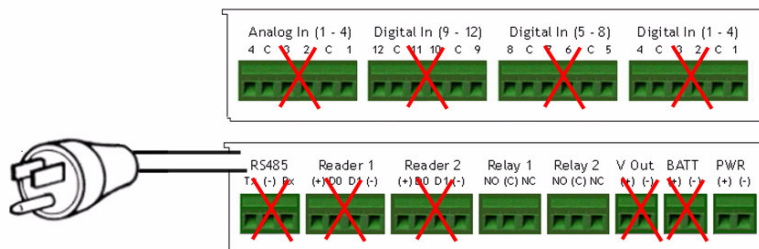


Power:

The COM3000 may be powered with any standard 110-12VDC power adapter. However, for direct wire requirements, the COM3000 will accept 9-30VDC. The power interface is a standard 2-wire (+ and -) terminal strip.

Disconnect the 2-lead terminal strip insert plug from the COM3000 power interface. With a power adapter or wire that is not yet connected to a power supply, insert the positive wire into the left (+) side access hole of the insert plug and tighten the retaining screw. Next, insert the ground wire into the right (-) side access hole of the terminal strip and tighten the second retaining screw. Plug the terminal strip plug into the COM3000 power interface. Finally, connect the other end of the wire or the power supply to your power source. The PWR light on the front of the COM3000 should now be lit. If it is not, check the power source to make sure it is connected or turned on. You may also want to check the make sure the (+) and (-) leads are wired correctly.

Do NOT insert live power leads directly into the Analog, Digital, Relay, RS-485 or Wiegand inputs, as this may severely damage the COM3000. Failure to comply with this warning will void any and all existing product warranties or service agreements.



Environment:

The COM3000 is NOT waterproof or weatherproof.

Installation should include an enclosure to protect electronics. Preferably a NMEA-4 type enclosure to ensure protection from water and humidity.



SECTION 3: SETUP AND CONFIGURATION

To make setup and configuration easy, the COM3000 comes with a MS Windows based Configuration Utility. This makes getting the device up and running quick and easy.

Step 1:

Connect your PC to the COM3000 Terminal Port using any standard RS232 serial cable. The Terminal Port is a DCE, so there is no need for a null adapter. Any standard serial cable will work just fine.



You may also choose to connect the COM3000 to an Ethernet crossover cable. In this scenario, you will need to configure your PC's Ethernet interface to an IP Address of 192.168.1.1, with a Default Gateway of 192.168.1.200 and a Net Mask of 255.255.255.0.

By Default, the COM3000 is configured with an IP Address of 192.168.1.2.

Step 2:

Launch the COM3000 Configuration Utility. You will see that the applications are divided into (4) sections:

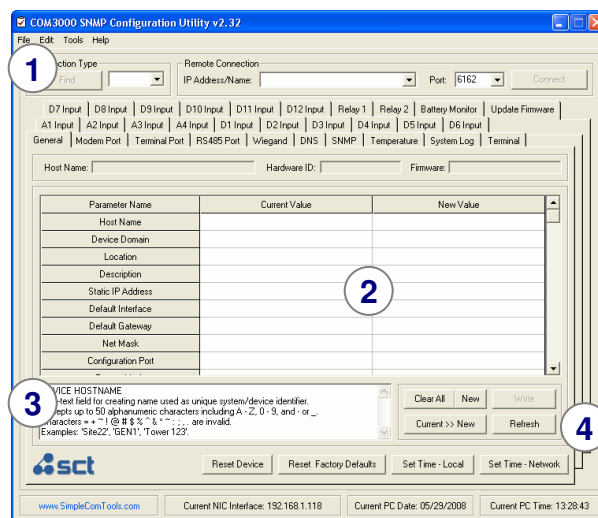
1. Locating/Connecting Devices
2. Viewing/Editing Settings
3. Setting Notes
4. Setting Controls

Step 3:

Locate the device you want to configure by selecting the desired method of communication.

LAN

Any COM3000 located on your Local Area Network can be found using this utility. Select LAN, enter the device Password, and click on the **Find Devices** button. You will see a popup box display the names of the devices found on the local network. Highlight the device you wish to configure, and select **Connect**.



COM PORT

Selected a COM PORT, click **Find Devices** and select your device from the popup box.

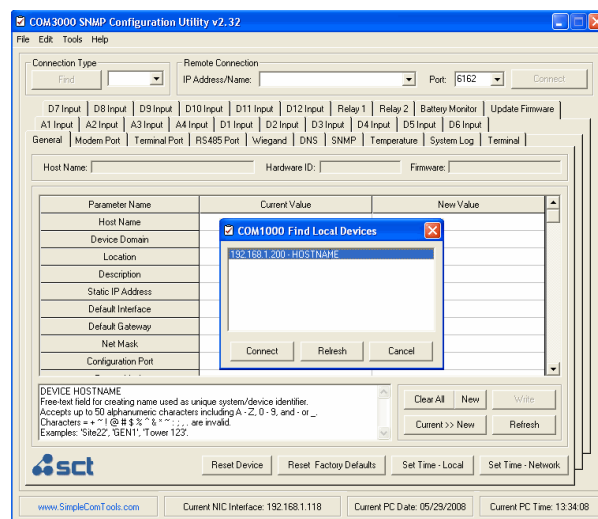
REMOTE

Select REMOTE, enter the device password, enter the IP Address or Domain Name, and select **Connect**. This feature can also be used to make a direct connection to a device where the IP or name is known.

Step 4:

Once connected to your device, you will see a splash screen, and the application will load all the parameters for the device for display.

Clicking on any of the Parameters Names. This will display details for that parameter in the Notes box.



Configuration Utility Basics

Making changes

Making changes to the device is done by entering the change in the New Value side. Changes can be entered use text or by selecting items from the drop-down menu.

Hit ENTER when entering the new value.
Unwritten changes are shown in Yellow.

Writing changes

The bottom buttons make it easy to navigate. Here are the basic button functions:

- WRITE sends all changes to the device.
- REFRESH updates the current display.
- CLEAR NEW clears the New Value area.
- RESET DEVICE will restart the COM3000.
- RESET FACTORY DEFAULTS will return the device to its original factory defaults

Using Templates

In order to save a device configuration for future use or to make copies of a working device, the configuration utility provides a TEMPLATE function.

Here are the basic options:

Saving a configuration

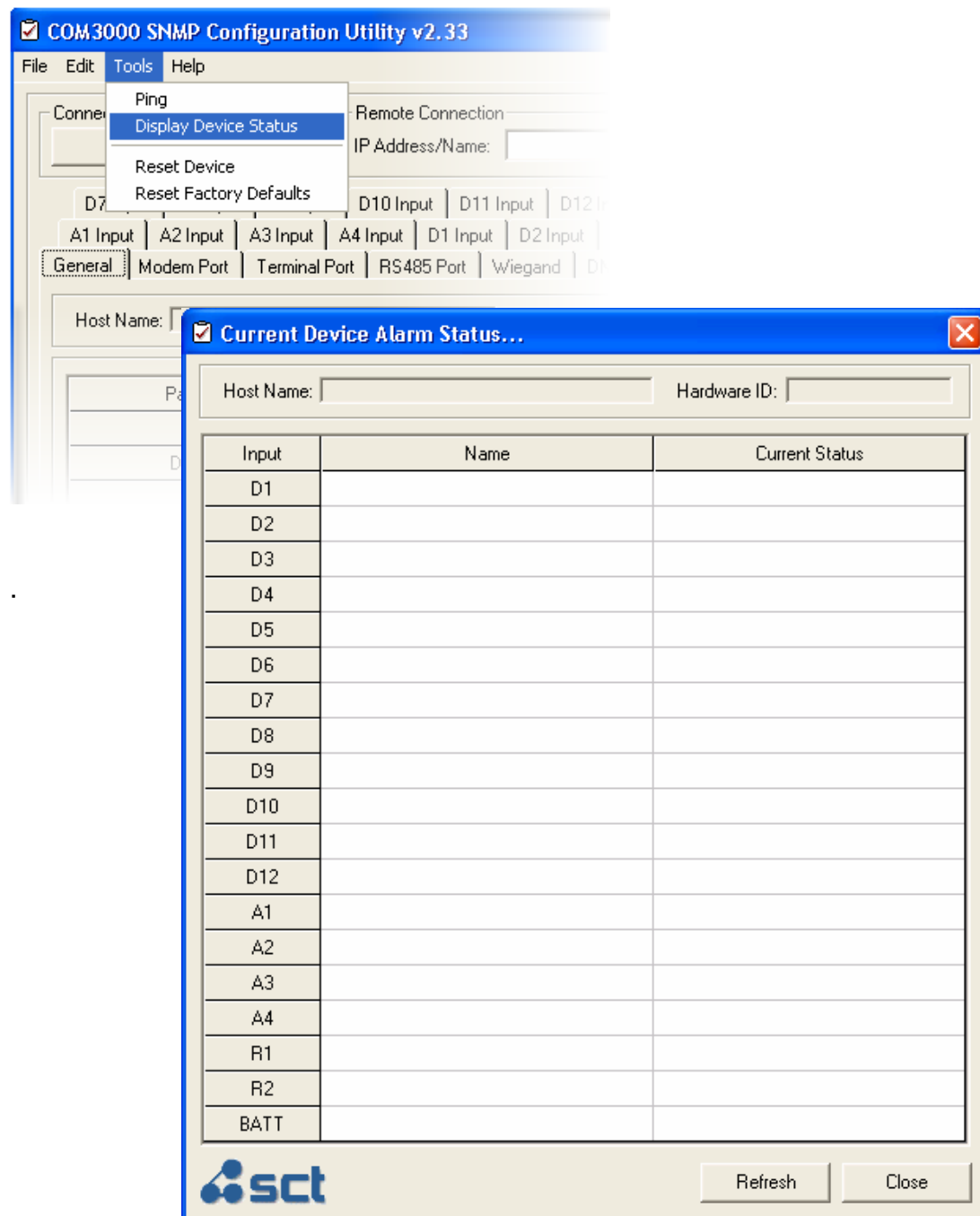
1. Select the **Current >> New** button to copy the current configuration to the New Value side.
2. Select the File/Template/Save and give the file a name and save it with a **.tpl** extension.

Opening a configuration

1. Select File/Template/Open and select the configuration file you want to use. When opened, the values will populate into the New Value side.
2. Edit values if appropriate.
3. Select WRITE to send changes to the device.

Viewing the Device Status

The COM3000 Configuration Utility includes a window that shows the status of the device inputs. Accessing the window is done by selecting “Display Device Status” from the Tools menu.



The NAME field will be populated with the custom input name entered in the Name field.
The CURRENT STATUS will show the state of alarm indicated.
All fields are color coated for easy viewing reference

COM3000-SNMP Primer

Simple Network Management Protocol (SNMP) is a popular network management tool. Traditionally, SNMP was designed and used to gather statistics for network management and capacity planning. For example, the number of packets sent and received on each network interface could be obtained. But because of its simplicity, SNMP use has expanded into many other areas of interest. It is now used for many non-network related functions, such as access control, facility security, building management, and more.

The COM3000-SNMP is an iteration of the COM3000 Industrial Internet Appliance with firmware supporting alarming and control via an embedded SNMP Agent. The SNMP Agent in the COM3000 supports SNMP version 1 as defined in RFC 1157. (*Support for Versions 2 and 3 are scheduled for future firmware releases*).

SNMP Overview

SNMP-managed networks consist of (3) key components:

- Managed devices
- Agents
- Network Management System (NMS)

A managed device is a networkable device that contains an SNMP agent and which resides on a managed network. Its purpose is to collect and store management related information and make this information available to a Network Management System (NMS) using the SNMP protocol. Managed devices can be routers, switches, servers, hubs, computer hosts, printers, etc. The information provided by the device is known as a **managed object**. A managed object can be a device itself, but is more commonly referring to a device characteristic: e.g., the value of a temperature gauge, the setting of a switch or any other logical or physical component of an embedded system. The COM3000 is a managed device that has a number of managed objects. These include digital and analog inputs, relay outputs, and more.

An SNMP agent is a network-management software module that resides inside a managed device. An agent has local knowledge of management related information and has the ability to translate that information into a format that the NMS can understand.

An NMS monitors and controls managed devices. An NMS processes SNMP information supplied by the managed devices and provides a user-interface and reporting applications that enable effective network management. There is at least one NMS on any managed network.

SNMP Communications

SNMP is typically run over TCP/IP networks. It is actually a client-server architecture, with the managed device actually acting as the server component, passively listening for poll requests or instructions from an SNMP manager (the client). Managers and agents exchange SNMP messages embedded in UDP packets. The SNMP messages can be in the form of poll requests, poll request responses, or unsolicited reports from managed devices to the managers – commonly referred to as SNMP Traps.

MIBS

Information about the managed objects provided by a managed device needs to be documented and shared with the NMS – otherwise the NMS will not know what the managed device has to offer. This information is collected and presented in something called a Management Information Base or MIB.

MIBs organize this management information in a tree-like hierarchical format presented as ASCII text files. Being an ASCII file means that MIBs can be easily read and parsed by machines, as well as viewed (or edited) in any word processor (such as Notepad, WordPad, or Microsoft Word). However, because of their complexity, end users should refrain from editing MIBS, as one simple mistake could render the entire MIB useless. It is often best to use a special MIB Browser to view the detail of the MIB objects.

Simple Com Tools provides MIBs for each individual product that supports SNMP. The MIB is available online at www.simplecomtools.com or by contacting the technical support group at support@simplecomtools.com.

Object Identifiers (OIDs)

MIBs contain two essential pieces of information about the managed device: objects and identifiers.

OBJECTS

An object (aqua: managed object) is one of many characteristics of a managed device.

Each managed object has a unique name, which is known as its object identifier, or OID.

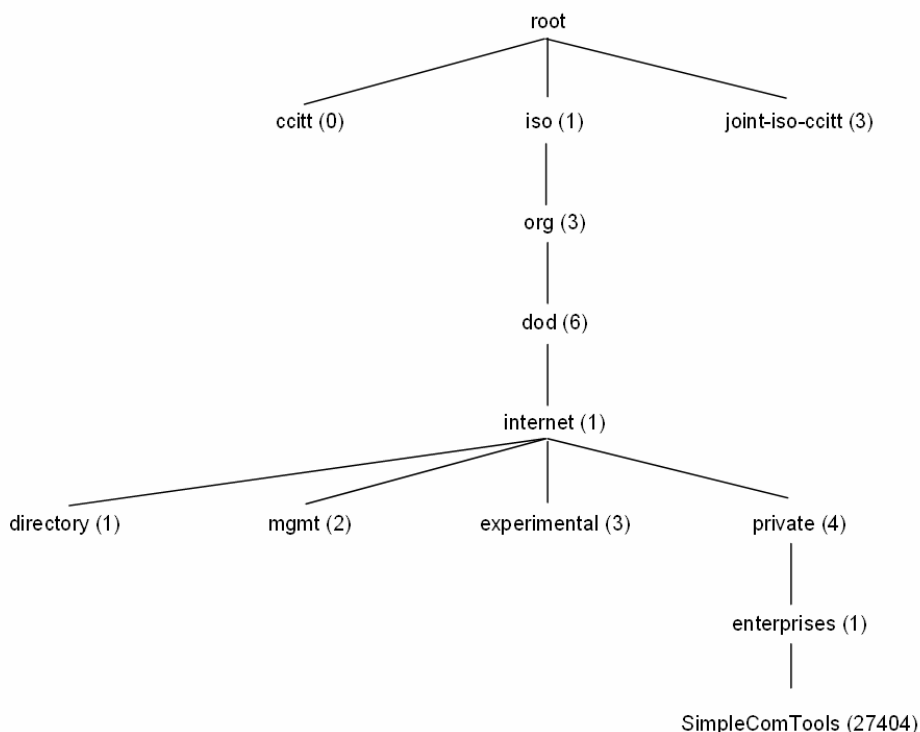
IDENTIFIERS

An object identifier (OID) is basically a string of numbers laid out in a hierarchal/tree-like format. Each number represents a branch on the tree. The goal of the number sequence is to help the SNMP Network Management System (NMS) uniquely identify a managed object in the MIB hierarchy.

OIDs consists of a node in a hierarchical format defined using the ASN.1 standard. Successive numbers of the nodes, starting at the root of the tree, identify each node in the tree. The root of the tree contains three main branches: ITU-T, ISO, joint-iso-itu-t. Every SNMP OID falls under one of these three tree branches. The most common is ISO because that is where all public internet devices fall.

Here is an example of the ASN.1 representation of Simple Com Tools: **.1.3.6.1.4.1.27404**

Here is an OID tree showing the same information in a tree-like graphical format:



All Simple Com Tools managed objects will fall under the tree branch .1.3.6.1.4.1.27404. The branches under 27404 will contain other branches that define managed devices as well as the managed objects within.

The OIDs for all COM3000 managed objects will begin with the group OID .1.3.6.1.4.1.27404.3.0 and will branch out from there. All COM3000 managed objects are addressable as private enterprise numbers.

Refer to APPENDIX A for descriptions of the various managed objects within the COM3000.

SECTION 4: COM3000-SNMP TRAPS

Simple Network Management Protocol (SNMP) is a popular network management tool. Traditionally, SNMP was designed and used to gather statistics for network management and capacity planning. For example, the number of packets sent and received on each network interface could be obtained. But because of its simplicity, SNMP use has expanded into areas of interest to embedded systems. It is now used for many applications such as network and site security, remote alarming, access control, and outage notification.

Since the COM3000 is most often used as an alarm appliance, it is somewhat impractical for a Network Manager to poll for information from every object on every interface. It is far more appropriate to use the COM3000 as a Report-By-Exception (RBX) appliance. This allows the embedded agent within the COM3000 to notify the manager without solicitation. It does this by sending a message known as an SNMP TRAP.

Trap notifications offer substantial savings of network and agent resources by eliminating the need for repetitive SNMP information poll requests. However, it is never possible to completely eliminate the need for SNMP polling. Such requests are often required for device discovery and network topology changes. They are also required for reading and writing configuration values, such date, time, location, alarm set points, etc. For that reason the COM3000 supports both traps and GET/SET requests.

Enabling Traps

The COM3000 allows you to ENABLE or DISBALE traps on each interface. This includes traps for Cold Start, Heartbeat, the Analog Input, each of the Digital Inputs and the internal Temperature Sensor. Each interface can be enabled separately from all others so you can choose to only get the alarms you need to receive.

Trap Message Format

All COM3000 traps are based on a single *Trap Message Format*. This is a global setting that lays out the structure for ALL trap messages. The Trap Message Format may include any or all of the (11) below listed optional variables. These variables can be presented in any order you wish, but once the order is selected – all traps will follow the same order.

While all messages will have a similar message parameter layout, each message can have completely unique message content. Trap messages can be as concise (terse) or detailed (verbose) as you like, and since each individual system event and input alarm has uniquely configurable parameters, each message can contain unique detail pertaining to that specific interface or alarm.

Here are the trap message variables that can be included in the Trap Message Format:

- 0 = No data
- 1 = Hostname
- 2 = Date/Time
- 3 = Location
- 4 = Device Description
- 5 = Input Name
- 6 = Current Input Value
- 7 = Input State Message
- 8 = Alarm Severity
- 9 = Alarm Category
- 10 = Alarm Number
- 11 = Alarm Type

For example:

A Trap Message Format of “1,3,5,7,8,9,11” would result in trap messages with the following (7) parameters: [Hostname, Location, Input Name, Input State Message, Input Severity, Alarm Category, and Alarm Type]

Selecting a Trap Message Format

To understand how best to create your ideal trap message format, it helps to understand the purpose of the many Trap Message Format variables. Their use is best understood when broken down into (3) sections:

Section 1: Device Info

This is information that helps identify the device that actually sent the trap.

- 1 = Hostname
- 2 = Date/Time
- 3 = Location
- 4 = Device Description

Section 2: Input/Event Info

This is information that helps identify the interface or system event that caused the trap to be generated.

- 5 = Input Name
- 6 = Current Input Value
- 7 = Input State Message

Section 3: Alarm Classifications

These are information fields that the customer can use to classify alarm events for their own specific needs.

- 8 = Alarm Severity
- 9 = Alarm Category
- 10 = Alarm Number
- 11 = Alarm Type

Selecting which variables to use is completely up to you. It depends solely on just how granular you need the message to be or how you intend to parse and use the data for your system management.

For example, some users may choose to completely forgo the use of the customizable Alarm Categories and simply use the variables available sections 1 and 2. Others may need only the device name and the input state for data, but choose to add an Alarm Type to help with statistical reporting. Regardless of the values chosen, every trap that is sent would have a message formatted in the exact same way. Heartbeats, Digital Inputs, Analog Set Point Events, etc. – all would follow the same format. However each would have unique message content based on the Input or Event generating the trap.

Here are some trap messages from a device with a Trap Message Format of 1,3,5,7,8,9,11.

Trap	Message Text (1,3,5,7,8,9,11)
Cold Start	COM3000, Site 22, Cold Start, System Restart, Informational, System, Power
Heart Beat	COM3000, Site 22, Heartbeat, Health Check, Informational, System, Status
Digital Input 1 in Active State	COM3000, Site 22, Front Door, OPEN, Critical, Security, Access Control
Digital Input 3 in Active State	COM3000, Site 22, Motion Alarm, Active, Major, Security, Access Control
Digital Input 1 Inactive State	COM3000, Site 22, Front Door, CLOSED, Restore, Security, Access Control
Analog High Warning Event	COM3000, Site 22, Temperature, Rising, Major, Environmental, System

You can tell from the messages that the customer has customized the names of the device, its location, the names of the inputs and the input states, as well as given the inputs unique severities, categories and types. This type of detail can sometimes result in a rather verbose message that your NMS may not prefer. Shortening the message can be done by either shortening the input attributes or eliminating them altogether.

Here's an example moving the Severity and Category first, with shorter variables and without the Alarm Type:

Trap	Message Text (9,8,1,3,5,7)
Heart Beat	SYS, Informational, C1000, 22, HB, OK
Digital Input 1 in Active State	SEC, Critical, C1000, 22, Door1, OPEN

Trap Transmissions and Retransmissions

SNMP traps will be sent to the Primary and Secondary NMS upon any of the following events:

- Device Cold Start
- Scheduled Heartbeat
- Digital Input state changes
- Analog Input Set Point violations
- Device Temperature Set Point violations

Retransmissions of the traps will be sent to both servers every 15 seconds until one of the servers acknowledges the trap. (See section Trap Acknowledgements for more details on formatting the ACK)

Trap Identification

There are two ways for an NMS to identify the source of the SNMP trap:

- 1) Examine the trap OID to obtain the source of the specific alarm
- 2) Examine the message details within the trap itself

Trap Identification Using the Trap OID

Each alarm point has unique trap OIDs that identify the input state and the status of trap acknowledgement. By sending the trap ACK status OID as the source, the COM3000 makes it easy to determine the source of the trap. For example, all (4) Digital Input variables fall under a single OID group .27404.3.3.2. Each of the inputs has a unique sub-group which contains (3) scalar OIDs – the current digital input status (Active or Inactive; 1 or 0), and the current status of the Active and the Inactive State trap acknowledgements.

- OID for all Digital Inputs: .1.3.6.1.4.1.27404.3.3.2 (Group)
- OID for the Digital Input 1 Group: .1.3.6.1.4.1.27404.3.3.2.1 (Sub-group)
- OID for Digital Input 1 Status: .1.3.6.1.4.1.27404.3.3.2.1.1.0 (Scalar 1)
- OID for Digital Input 1 Active State Trap ACK: .1.3.6.1.4.1.27404.3.3.2.1.2.0 (Scalar 2)
- OID for Digital Input 1 Inactive State Trap ACK: .1.3.6.1.4.1.27404.3.3.2.1.3.0 (Scalar 3)

When the Digital Input 1 state changes to Active, a trap is sent with the OID for the Digital Input 1 Active State ACK, (: .1.3.6.1.4.1.27404.3.3.2.1.2.0). It is immediately known then that Digital Input 1 has gone into the Active state. Sending an ACK to this OID will stop the traps from continually being sent. (See section Trap Acknowledgements for more details on formatting the ACK). Also - by stepping back one OID number (from 2.0 to 1.0), the NMS can read the current state of the digital input that generated the alarm event if necessary.

Trap Identification Using the Trap Message Text

Another option for determining the source of the alarm would be to examine the trap message detail. Having a detailed message can provide a great deal more visibility into the source and type of the trap and can help speed the processing of operational decisions.

In order to give users the greatest control over the trap message detail, the COM3000 provides the ability to add up to (11) variables to your trap message. Deciding which variables to include in the message is done by setting the *Trap Message Format*. (Refer to the section entitled **Trap Message Format** for more info).

Trap Acknowledgements

Trap acknowledgements are very simple. Each alarm point has unique trap OIDs indicating the status of trap acknowledgements. So when a trap is sent, the OID will actually be the state ACK status OID as the source. Sending an acknowledgement is done simply by sending an SNMP SET command containing any value back this originating OID. This can be something as simple as a 1 or 0 or even the word 'ACK'. The device will see any attempt to write to this point as the NMS acknowledging the trap. This will cease any trap retransmission.

For example...

Each of the digital inputs has their own Active and the Inactive State trap acknowledgements OIDs.

- OID for Digital Input 1 Active State Trap ACK: .1.3.6.1.4.1.27404.3.3.2.1.2.0
- OID for Digital Input 1 Inactive State Trap ACK: .1.3.6.1.4.1.27404.3.3.2.1.3.0

When the Digital Input 1 state changes to Active, the trap will have the OID .1.3.6.1.4.1.27404.3.3.2.1.2.0. Simply sending an SNMP SET command with the value 1 will acknowledge this trap.

Alarm Classifications

with any event notification system, it is helpful to be able to categorize the event to facilitate accurate response and reporting. In the interest of providing a greater degree of event reporting granularity, the COM3000 provides (4) Alarm Classification variables. These include Alarm Number, Alarm Type, Alarm Category, and Alarm Severity.

Alarm variables are not to be confused with trap types. Those values are used in the SNMP PDU for the NMS to be able to react accordingly. These Alarm variables are actually values that you can customize and include in the SNMP message text (as demonstrated in the previous section). The table below explains them in detail.

Value	Description	Implementation
Alarm Number	Numeric designations you can choose to assign a specific alarm from an interface. 5 digit value between 1 and 65535.	You may choose to configure Digital Input 1 to be connected to the out door, and assign that a number of 100. That would allow you to do research on all the '100' alarms over the reporting period.
Alarm Category	A user-defined value for the CATEGORY the alarm trap represents. Accepts up to 20 characters.	You might use alarm categories to designate alarms that came from certain buildings, floors, locations, etc.
Alarm Type	A user-defined value for the TYPE of alarm the trap represents. Accepts up to 20 characters.	You might use different types to designate alarm topics, such as security, environment, lighting, power, etc.
Alarm Severity	User selectable value from (5) severity levels assigned to the specific interface. Options: 0 = No Severity (DEFAULT) 1 = Minor 2 = Major 3 = Critical 4 = Informational 5 = Restore	For example, you might choose to assign some Input Alarms from external motion detectors as Minor, and others attached to doors or windows as Major.

Trap Types

The COM3000 supports (12) different trap types broken into (3) basic categories: Informational, Warnings, and Alarms. In an effort to provide additional granularity, the COM3000 provides (2) types for each of these categories. This allows a great deal of flexibility for the end user to assign different types of traps to meet their specific reporting requirements. Finally, there are (2) restore trap types for each of the 3 categories as well.

The (12) different trap types have individually pre-assigned trap numbers ranging from 1000 through 6500. The following table describes the trap type and their intended application.

Trap Number	Trap Name	Description
1000	Inform1	Non-critical or Informational trap message. Used for items such as Heartbeat, Cold Start, or access alerts.
1500	Inform1Restore	Non-critical or Informational trap restore message. Indicates the state that triggered an Inform1 trap has returned to normal.
2000	Inform2	Non-critical or Informational trap message. Used for items such as Heartbeat, Cold Start, or access alerts.
2500	Inform2Restore	Non-critical or Informational trap restore message. Indicates the state that triggered an Inform2 trap has returned to normal.
3000	Warn1	Non-critical or minor WARNING trap used for Input state changes or set points. Suggested uses include such things as access alerts, motion alarms, or low temperature warnings.
3500	Warn1Restore	Non-critical WARNING RESTORE trap. Used to indicate the state that triggered Warn1 has changed back to normal. For Analog Inputs it means the warning level that triggered Warn1 has returned back to normal range.
4000	Warn2	Non-critical or minor WARNING trap used for Input state changes or set points. Suggested uses include such things as access alerts, motion alarms, or low temperature warnings.
4500	Warn2Restore	Non-critical WARNING RESTORE trap. Used to indicate the state that triggered Warn2 has changed back to normal. For Analog Inputs it means the warning level that triggered Warn2 has returned back to normal range.
5000	Alarm1	Critical or major ALARM trap used for input state changes or set points. Suggested uses include such things as intrusion alarms, flood alarms, or low temperature alarms.
5500	Alarm1Restore	Non-critical ALARM RESTORE trap. Used to indicate the state that triggered Alarm1 has changed back to normal. For Analog Inputs it means the warning level that triggered Alarm1 has returned back to normal range.
6000	Alarm2	Critical or major ALARM trap used for Digital Input state changes or Analog Input set points. Suggested uses include such things as intrusion alarms, flood alarms, or high temperature alarms.
6500	Alarm2Restore	Non-critical ALARM RESTORE trap. Used to indicate the state that triggered Alarm2 has changed back to normal. For Analog Inputs it means the warning level that triggered Alarm2 has returned back to normal range.

Sample Trap Configuration Process

Here are some examples of how you might create traps. (This outline uses the Configuration Utility tabs).

Heartbeat Traps

Step 1: [General Tab]

Configure the HOSTNAME and LOCATION, IP Address, Default Gateway, and Netmask

Step 2: [SNMP Tab]

Configure your SNMP Server IP Address(es), SNMP Message Port and SNMP Trap Port

- Unless you have knowledge of other ports to use, leave the default port values.

Step 3: [SNMP Tab]

Select values to be included in the SNMP Trap Message Format

- You may want to start with all the values and tune it back from there. (1,2,3,4,5,6,7,8,9,10,11)
- Messages with only be 128 bytes long regardless of what variables you choose.

Setup the Heartbeat Values

- Enable the SNMP Heartbeat Traps
- Configure the Heartbeat Name and Heartbeat Message
- Configure the Heartbeat Timer or TOD
- Configure the Heartbeat Alarm Category, Number, Type and Severity
- Configure the SNMP Heartbeat Trap Type (Enter the value 1000 for Inform1 messages)

Step 4: Select the WRITE button to write the values to the device.

- Select YES when it asks you if you want to reset the device.

You should see 1000 trap type events arrive at the specified NMS based on the specified time interval. Each event will repeat every 15 seconds until the NMS performs a GET or SET to any OID.

Digital Input 1 Traps

Step 1: [General Tab]

Configure the HOSTNAME and LOCATION, IP Address, Default Gateway, and Netmask

Step 2: [SNMP Tab]

Configure your SNMP Server IP Address(es), SNMP Message Port and SNMP Trap Port

Select values to be included in the SNMP Trap Message Format

Step 3: [Digital Input 1 Tab]

Setup the relevant Digital Input 1 Values

- Configure the Digital Input 1 Name
- Enable the Digital Input 1 Traps
- Configure the Alarm Category, Number, and Types
- Select the switch type (Normally Open or Normally Closed)
- Enter the Active and Inactive State Message Text
- Select the Active and Inactive State Alarm Severity
- Enter the Active State Trap Type (Enter the value 3000 for Warn1 messages)
- Enter the Inactive State Trap Type (Enter the value 3500 for Warn1Restore messages)

Step 4: Select the WRITE button to write the values to the device.

Select YES when it asks you if you want to reset the device.

Step 5: Connect a DRY CONTACT switch to the (+) and (GND) terminal blocks. Triggering a state change to the input will cause a 3000 trap to be sent to the NMS. Changing back will generate a 3500 trap.

More Information

Should you need more information on how to configure COM3000 traps, please feel free to contact us at support@simplecomtools.com or visit our website at <http://www.simplecomtools.com/support>.

SECTION 5: COM3000 CONFIGURATION UTILITY PARAMETERS

The COM3000-SNMP has approximately 200 commands that can be configured to meet your specific event management reporting requirements. The commands are broken down into (14) Categories:

- General Settings
- Modem Port Configuration
- Terminal Port Configuration
- RS485 Port Configuration
- Wiegand Interfaces
- DNS Settings
- SNMP Settings
- Temperature
- Analog Inputs 1-4
- Digital Inputs 1-12
- Relay 1 & 2
- Battery Monitor

COM3000 SNMP Configuration Utility v2.32

File Edit Tools Help

Connection Type: Find **LAN** Remote Connection: IP Address/Name: Port: 6162 **Connect**

D7 Input | D8 Input | D9 Input | D10 Input | D11 Input | D12 Input | Relay 1 | Relay 2 | Battery Monitor | Update Firmware |
A1 Input | A2 Input | A3 Input | A4 Input | D1 Input | D2 Input | D3 Input | D4 Input | D5 Input | D6 Input |

General | Modem Port | Terminal Port | RS485 Port | Wiegand | DNS | **SNMP** | Temperature | System Log | Terminal

Host Name: Hardware ID: Firmware:

Parameter Name	Current Value	New Value
Host Name		
Device Domain		
Location		
Description		
Static IP Address		
Default Interface		
Default Gateway		
Net Mask		
Configuration Port		

DEVICE HOSTNAME
Free-text field for creating name used as unique system/device identifier.
Accepts up to 50 alphanumeric characters including A - Z, 0 - 9, and - or _.
Characters = + ~ ! @ # \$ % ^ & * ~ : ; , . are invalid.
Examples: 'Site22', 'GEN1', 'Tower 123'.

Clear All **New** **Write**
Current >> New **Refresh**

sct **Reset Device** **Reset Factory Defaults** **Set Time - Local** **Set Time - Network**

www.SimpleComTools.com Current NIC Interface: 192.168.1.118 Current PC Date: 05/30/2008 Current PC Time: 10:03:14

GENERAL

The General tab is for configuring parameters related to the general operation of the device. This is where you begin to configure a device name, network settings, and security.

Parameter Name	Description
Hostname	Name used as System/Device identifier. Accepts up to 50 alphanumeric characters.
Device Domain	Name consists of a sequence of two or more groups of characters separated by periods and includes the top-level, 2nd, or 3rd level domain names. Examples: 'mydomain.com' or 'east.mydomain.com'.
Location	Location identifier – free text field to be used by customer to ID installation location. Accepts up to 20 alphanumeric characters.
Description	Device description – free text field to be used by customer for whatever they require. Accepts up to 20 alphanumeric characters.
Static IP Address	Static IP address to be assigned to the Ethernet interface. This is the address to be used every time the device is powered up. DEFAULT ADDRESS = 192.168.1.2
Default Interface	This is the default interface to be used by the device for sending data. Options: 0 = Ethernet (DEFAULT) 1 = Modem
Default Gateway	IP address of the router that forwards traffic to a destination outside of the subnet.
Net Mask	IP address subnet mask used to determine what subnet an IP address belongs.
Configuration Port	Sets the TCP and UDP Configuration Port. This is the port that the device listens on for both Configuration utility and command line requests. (DEFAULT = 6162) Accepts nnnnn = (5 digit value with range between 1 and 65535).
Protect Mode	Protected Mode restricts access to the device. Options: 0 = Disabled (DEFAULT) 1 = Enabled
Password	Sets the device password. DEFAULT is 'simple'.
PING Timer	Number of minutes to wait between PING attempts. Options: 0 = No PINGS will be sent (DEFAULT) 1-65535 = number of minutes between attempts (60 = one attempt per hr) NOTE: A PING attempt is the entire number of PING retries. Not just a single PING.
PING Retries	Number of PING failures required before the device will reset IP network connection. This number is also used for other applications that access the network. In the event those applications fail to connect with their assigned servers, the device will try the number of times specified here before resetting the network connection. (5 digit value with range between 0 and 65535)
PING IP Address	Destination IP Address of a remote Destination IP or Domain where the COM3000 will send a PING in order to test for network connectivity. Accepts numeric IP Address or fully qualified domain name (abc.123.com). (Accepts up to 50 characters). Default = 206.124.64.253

Time	Sets the device date. Use the format MM/DD/YYYY.																										
Date	Sets the device time. Use the format HH:MM:SS.																										
SNTP Server	IP or Domain of Simple Network Time Protocol (SNTP) server.																										
SNTP Update Interval	Sets the update interval for real-time clock updates from SNTP server. Options: 0 = not active (DEFAULT) 1-8760 = number of hours between updates																										
Time Zone	<p>Sets the time zone where the device will be located. Enter integer value between -12 and +13 to indicate the offset from Greenwich Mean Time (GMT).</p> <p>Sample values are as follows:</p> <table> <tr> <td>-12:00 = GMT-12 – Eniwetok</td><td>+01:00 = GMT+ 1 – Berlin, Rome, Paris</td></tr> <tr> <td>-11:00 = GMT-11 – Samoa</td><td>+02:00 = GMT+ 2 – Jerusalem, Helsinki</td></tr> <tr> <td>-10:00 = GMT-10 – Hawaii</td><td>+03:00 = GMT+ 3 – Moscow, Nairobi</td></tr> <tr> <td>-09:00 = GMT- 9 – Alaska</td><td>+04:00 = GMT+ 4 – Abu Dhabi</td></tr> <tr> <td>-08:00 = GMT- 8 – US Pacific Time</td><td>+05:00 = GMT+ 5 – Karachi</td></tr> <tr> <td>-07:00 = GMT- 7 – US Mountain Time</td><td>+06:00 = GMT+ 6 – Astana</td></tr> <tr> <td>-06:00 = GMT- 6 – US Central Time</td><td>+07:00 = GMT+ 7 – Bangkok</td></tr> <tr> <td>-05:00 = GMT- 5 – US Eastern Time</td><td>+08:00 = GMT+ 8 – Hong Kong, Singapore</td></tr> <tr> <td>-04:00 = GMT- 4 – Atlantic Time</td><td>+09:00 = GMT+ 9 – Tokyo</td></tr> <tr> <td>-03:00 = GMT- 3 – Greenland</td><td>+10:00 = GMT+10 – Guam</td></tr> <tr> <td>-02:00 = GMT- 2 – Mid-Atlantic</td><td>+11:00 = GMT+11 – New Caledonia</td></tr> <tr> <td>-01:00 = GMT- 1 – Azores</td><td>+12:00 = GMT+12 – Fiji</td></tr> <tr> <td>00:00 = GMT – Greenwich Mean Time</td><td>+13:00 = GMT+13 – Nuku'alofa</td></tr> </table>	-12:00 = GMT-12 – Eniwetok	+01:00 = GMT+ 1 – Berlin, Rome, Paris	-11:00 = GMT-11 – Samoa	+02:00 = GMT+ 2 – Jerusalem, Helsinki	-10:00 = GMT-10 – Hawaii	+03:00 = GMT+ 3 – Moscow, Nairobi	-09:00 = GMT- 9 – Alaska	+04:00 = GMT+ 4 – Abu Dhabi	-08:00 = GMT- 8 – US Pacific Time	+05:00 = GMT+ 5 – Karachi	-07:00 = GMT- 7 – US Mountain Time	+06:00 = GMT+ 6 – Astana	-06:00 = GMT- 6 – US Central Time	+07:00 = GMT+ 7 – Bangkok	-05:00 = GMT- 5 – US Eastern Time	+08:00 = GMT+ 8 – Hong Kong, Singapore	-04:00 = GMT- 4 – Atlantic Time	+09:00 = GMT+ 9 – Tokyo	-03:00 = GMT- 3 – Greenland	+10:00 = GMT+10 – Guam	-02:00 = GMT- 2 – Mid-Atlantic	+11:00 = GMT+11 – New Caledonia	-01:00 = GMT- 1 – Azores	+12:00 = GMT+12 – Fiji	00:00 = GMT – Greenwich Mean Time	+13:00 = GMT+13 – Nuku'alofa
-12:00 = GMT-12 – Eniwetok	+01:00 = GMT+ 1 – Berlin, Rome, Paris																										
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-01:00 = GMT- 1 – Azores	+12:00 = GMT+12 – Fiji																										
00:00 = GMT – Greenwich Mean Time	+13:00 = GMT+13 – Nuku'alofa																										
Daylight Savings Time	<p>Daylight savings time enabled: Options: 0 = not enabled (DEFAULT) 1 = US Standard Enabled (Change Time at 0200 Hours) 2 = EU Standard Enabled (Change Time at 0100 Hours GMT)</p>																										

MODEM PORT

The Modem Port tab is for configuring parameters related to the Modem (DTE) Port. This is where you begin to configure a device to work with a landline or wireless modem. You will setup parameters such as initialization string, dial string, hangup string, signal control, mode connection options.

Parameter Name	Description
Port Settings	Sets Modem Port Baud Rate, Data Bits, Parity and Stop Bits. Example: 19200,8N1 (DEFAULT = 115200,8N1) Baud Rate Options: 1200, 2400, 4800, 9600, 18200, 38400, 57600, 115200 Data Bits Options: 7 or 8 Data Bits Parity Options: None, Even, Odd Stop Bit Options: 1 or 2 Stop Bits
DCD Control	Sets how the COM3000 uses the DCD signal from the modem. Options: 0 = Ignore DCD (Send data regardless of DCD state) (DEFAULT) 1 = Use DCD (Look for DCD before dialing or sending data)
DTR Control	Sets how the COM3000 uses the DTR to control the modem. Options: 0 = Disable DTR (Do not assert DTR at any time) 1 = Assert DTR for connection control (DEFAULT) 2 = Always assert DTR regardless of modem state
Flow Control	Sets how the COM3000 uses Flow Control. Options: 0 = Disable Flow Control 1 = Hardware Flow Control (DEFAULT) 2 = Xon/Xoff
Local Echo	Echo typed characters back locally. Options: 0 = Echo Off 1 = Echo On (DEFAULT)
Modem Mode	Modem Mode of Operation Options: 0 = Never Connect 1 = Dial on Demand (DEFAULT) 2 = Always maintain connection 3 = PPP Server
Modem Mode Timer	Modem Connection Timer Options: 0 = No specific time; hang up after transaction (DEFAULT) 1 = 65535 = (Timer in seconds)
Modem Setup String	The Modem Setup String is a command string sent to the modem at the time the device powers up. It is sent one time after power-up, and never sent again. This is not a replacement for the Modem INIT string, which is sent every time the modem is dialed. Accepts alphanumeric value up to 50 characters
Modem Init String	The Modem INIT String is a command string sent to the modem every time the modem is dialed. Accepts alphanumeric value up to 20 characters.
Modem Dial String	Sets modem dial string. Must enter the dial prefix (ATD, ATDT, etc) and phone number in order to dial. Accepts alphanumeric value up to 20 characters
Modem Escape String	Sets modem escape string. Used for setting the value required by the modem to escape from a session. Accepts alphanumeric value up to 20 characters (+++)
Modem Hangup String	Sets modem hangup string. Accepts alphanumeric value up to 20 characters Used for setting the value required by the modem to hangup a session. (ATH)

Line Termination Character	Sets line termination sequence used when sending command strings to a modem. Options: 0 = CR (Send a Carriage Return after sending string) (DEFAULT) 1 = LF (Send a Line Feed after sending string) 2 = CR+LF (Send a Carriage Return + Line Feed after sending string)
Username	Dialup or PPP Account Username. (Accepts up to 50 characters). Example: jonhdoe
Password	Dialup or PPP Account Password. (Accepts up to 50 characters). Example: password123
PPP Server (Peer) IP	PPP SERVER IP. The IP Address that COM3000 will use as its internal address when used as Remote Access/PPP Server. Accepts numeric IP Address only.
PPP Client IP	PPP CLIENT IP: The IP Address that COM3000 will assign to the user or machine making a dial-in/PPP connection to the PPP Server. Accepts numeric IP Address only.

TERMINAL PORT

The Terminal Port tab is for configuring parameters related to the Terminal (DCE) Port. This is where you begin to configure a device to work with a PC, data terminal, RTU, PLC, or data logger. You will setup parameters such as port speed, signal control, application options, etc.

Parameter Name	Description
Port Settings	Sets Terminal Port Baud Rate, Data Bits, Parity and Stop Bits. Example: 19200,8N1 (DEFAULT = 115200,8N1) Baud Rate Options: 1200, 2400, 4800, 9600, 18200, 38400, 57600, 115200 Data Bits Options: 7 or 8 Data Bits Parity Options: None, Even, Odd Stop Bit Options: 1 or 2 Stop Bits
DCD Control	Sets how the COM3000 uses DCD to control the Terminal. Options: 0 = Always assert DCD (DEFAULT) 1 = DCD used for connection control - active when IP network is available - inactive when network connection drops
DTR Control	Sets how the COM3000 responds to DTR from the Terminal. Options: 0 = Ignore DTR transitions (DEFAULT) 1 = Respond to DTR transitions, leave modem connected 2 = Respond to DTR transitions, reset modem 3 = Respond to DTR transitions, reset device, return to start mode
DSR Control	Sets how the COM3000 uses DCD to control the Terminal. Sets how the COM3000 uses DSR to control the Terminal. Options: 0 = Always assert DSR and accept data regardless of DTR status 1 = DSR used for connection control (DEFAULT) - active when IP network is available - inactive when network connection drops
Local Echo	Echo typed characters back locally. Options: 0 = Echo Off 1 = Echo On (DEFAULT) NOTE: Typed characters will only be echoed when terminal port is NOT engaged in an application. Once port is configured for use as a UDP or TCP device server, ECHO no longer functions. In order to communicate to the device, you will need to reset/power-cycle the device. At that point you will have (20) seconds in which to communicate. In order to continue communications past that 20 second period, you will need to PAUSE the device and stop it from engaging the applications. This is done using the PAUSE APPLICATIONS button located at the at the bottom left corner of the GENERAL tab.
Flow Control	Sets how the COM3000 uses Flow Control. Options: 0 = Disable Flow Control 1 = Hardware Flow Control (DEFAULT) 2 = XOn/XOff
Quiet Mode	Suppress status or command response output. Options: 0 = Off (DEFAULT) 1 = On

Inter Character Timer	Terminal Port Inter-Character Timer. (n = 1-5000 milliseconds). This is the length of the pause between characters in the serial data stream before executing any application.
Buffer Size	Terminal Port Application Buffer. Value 'n' is in BYTES. This is the amount of data being stored in the buffer before executing any of the *TAPP selections. This value requires that TERMINAL PORT APP #1, 2 or 3 TRIGGER be set to 4 (Buffer).
UDP Server Enabled	UDP Device Server Options: 0 = Not Enabled (DEFAULT) 1 = Enabled
UDP Server Port	UDP Device port used to receive incoming UDP packets. nnnnn = (5 digit value with range between 1 and 65535)
TCP Server Enabled	TCP Device Server Options: 0 = Not Enabled (DEFAULT) 1 = Enabled
TCP Server Port	TCP Device port used to receive incoming TCP connections. nnnnn = (5 digit value with range between 1 and 65535)
TCP Server Inactivity Timer	TCP/Device Server inactivity timer. Device Server will drop TCP connection if there is no data flow for the stated period of time. (n =0-255 Seconds)
Escape String	Sets terminal port escape string. Accepts alphanumeric value up to 20 characters. Used for setting the value required by the COM3000 to escape from a session. Example: +++
Hangup String	Sets terminal port hangup string. Accepts alphanumeric value up to 20 characters. Used for setting the value required by the COM3000 to hangup a session. Example: ATH

RS-485 PORT

The RS485 Port tab is for configuring parameters related to the RS-485 Port. This is where you begin to configure a device to work with an RTU, PLC, or data logger. You will setup parameters such as port speed, signal control, application options, etc.

Parameter Name	Description
Baud rate	Sets RS485 Port Baud Rate. (DEFAULT = 115200) Baud Rate Options: 1200, 2400, 4800, 9600, 18200, 38400, 57600, 115200
Inter Character Timer	RS-485 Port Inter-Character Delay Timer. Options: 0 = ½ Character Delay (DEFAULT) 1 = 1 Character Delay 2 = 2 Character Delay 3 = 3 Character Delay
Buffer Size	RS-485 Port Application Buffer. Value 'n' is in BYTES.
UDP Server Enabled	Local UDP/Device Server Application. Options: 0 = Not Enabled (DEFAULT) 1 = Enabled
UDP Server Port	Local UDP/Device Server application port used to receive incoming UDP connections. nnnnn = (5 digit value with range between 1 and 65535)
TCP Server Enabled	Local TCP/Device Server Application. Options: 0 = Not Enabled (DEFAULT) 1 = Enabled
TCP Server Port	Local TCP/Device Server application port used to receive incoming TCP connections. nnnnn = (5 digit value with range between 1 and 65535)
TCP Server Inactivity Timer	TCP/Device Server inactivity timer. Device Server will drop TCP connection if there is no data flow for the stated period of time. (n = 0-255 Seconds)
Escape String	Sets RS-485 Port escape string. Accepts alphanumeric value up to 20 characters. Used for setting the value required by the COM3000 to escape from a session. Example: +++
Hangup String	Sets RS-485 Port hangup string. Accepts alphanumeric value up to 20 characters. Used for setting the value required by the COM3000 to hangup a session. Example: ATH

DNS

The DNS tab is for configuring parameters related to the use of DNS to resolve names.
DNS Servers may be assigned manually or automatically via PPP.

Parameter Name	Description
Primary DNS	IP or Domain Name of Primary Domain Name System (DNS) Server. Accepts n.n.n.n or abc.123.com (Up to 50 characters)
Secondary DNS	IP or Domain Name of Secondary Domain Name System (DNS) Server. Accepts n.n.n.n or abc.123.com (Up to 50 characters)

SNMP

The **SNMP** tab is used for configuring the **SNMP** settings for sending **SNMP** traps. Other **SNMP** variables are also configured in the **GENERAL** and individual **INPUT** tabs.

Parameter Name	Description
NMS Server IP 1	IP or Domain Name of Primary destination SNMP Network Manager (NMS). Accepts n.n.n.n or abc.123.com (Up to 50 characters)
NMS Server IP 2	IP or Domain Name of Secondary destination SNMP Network Manager (NMS). Accepts n.n.n.n or abc.123.com (Up to 50 characters)
NMS Server Port	UDP Port the device listens on for requests from the NMS. (DEFAULT = 161) Accepts nnnnn = (5 digit value with range between 1 and 65535).
Trap Port	UDP Port the device uses to send TRAPS to the NMS. (DEFAULT = 162) Accepts nnnnn = (5 digit value with range between 1 and 65535).
Trap Message Method	Select from ASCII Text or Variable Binding (Varbind) for SNMP Trap messages. Options: 0 = ASCII (DEFAULT) 1 = Variable Binding (Varbind)
Trap Message Format	Configures the specific device values to be displayed within the SNMP Traps. Enter multiple values by entering each value separated by commas; (ie 1,2,3,4,5,6) Order of values can be in any order you wish. (ie 3,2,11,4,9,6) Options: 0 = No Data (DEFAULT) 1=Hostname 2=Date/Time 3=Location 4=Description 5=Input Name 6=Current Value 7=Input State Message 8=Input State Severity 9=Alarm Category 10=Alarm Number 11=Alarm Type
Trap Message Delimiter	Character used to separate the data elements in the SNMP trap messages. Options: 0=Space (DEFAULT) 1=Comma (,) 2=Semi colon (;) 3=Colon (:)
Trap Retry Timer	Time to wait for acknowledgement before resending a Trap message. Value is in minutes. Options: 0 = No resent messages (DEFAULT) 1-65535 = number of minutes between resent messages (60 = one p/hr)

Cold Start Name	A free-text field for naming Cold Start messages to your specific requirements. Example: Startup, System Restart, Power-up, etc. This field may be used in the trap messages to help identify the message. Accepts up to 20 characters.
Cold Start Traps	Enables or Disables the SNMP Cold Start traps. Options: 0 = Disabled (DEFAULT) 1 = Enabled
Cold Start Alarm Category	A free-text field for entering a category for the type of alarms the Cold Start trap represents. Examples: MINOR, STATUS, INFORMATION, SYSTEM, etc. Accepts up to 20 characters.
Cold Start Alarm Number	A numeric field used for assigning a user-defined alarm value to Cold Start traps. nnnnn = (5 digit value with range between 1 and 65535).
Cold Start Alarm Type	A free-text field for entering a user-defined value for the type of alarm the Cold Start trap represents. Examples: SYSTEM, SECURITY, FACILITY, etc. Accepts up to 20 characters.
Cold Start Message	A free-text field for customizing Cold Start message text to your specific requirements. Example: Check Power, Call Tech, Check UPS, etc. This field may be used in the trap messages to help identify the message. Accepts up to 20 characters.
Cold Start Trap Type	<p>Allows you to select from one of (12) pre-defined trap types to meet your specific NMS trap reporting requirements.</p> <p>Options: 1000=Inform1 (DEFAULT) 1500=Inform1Restore 2000=Inform2 2500=Inform2Restore 3000=Warn1 3500=Warn1Restore 4000=Warn2 4500=Warn2Restore 5000=Alarm1 5500=Alarm1Restore 6000=Alarm2 6500=Alarm2Restore</p> <p>Note: Entering a number other than what is specified here will result in a trap being sent with a trap number of the number entered. This could result in issues for your NMS if that number is not supported in the COM3000 MIB.</p>
Cold Start Alarm Severity	<p>SNMP Cold Start severity. Used to assign one of (5) Alarm severity levels to the Cold Start traps. Field may be used in the trap messages to help identify the message.</p> <p>Options: 0 = No Severity (DEFAULT) 1 = Minor 2 = Major 3 = Critical 4 = Informational 5 = Restore</p>

Heartbeat Name	A free-text field for naming heartbeat messages to your specific requirements. Example: Health Check, System Check, Pulse, etc. This field may be used in the trap messages to help identify the message. Accepts up to 20 characters.
Heartbeat Traps	Enables or Disables the SNMP Heartbeat traps. Options: 0 = Disabled (DEFAULT) 1 = Enabled
Heartbeat Timer	Scheduled Heartbeat Event time (in minutes) Options: 0 = No time interval (DEFAULT) (Device will use the TOD value instead) 1-65535 = # of minutes between heartbeat traps (44640 min = 1 month)
Heartbeat TOD	Sets the TIME OF DAY for regularly scheduled Heartbeat traps. Set the time value using the format HH:MM. (Military time only). Example: 00:00 = Midnight (DEFAULT)
Heartbeat Alarm Category	A free-text field for entering a category for the type of alarms the Heartbeat trap represents. Examples: MINOR, STATUS, INFORMATION, etc. Accepts up to 20 characters.
Heartbeat Alarm Number	A numeric field used for assigning a user-defined alarm value to the Heartbeat traps. nnnnn = (5 digit value with range between 1 and 65535).
Heartbeat Alarm Type	A free-text field for entering a user-defined value for the type of alarm the Heartbeat trap represents. Examples: SYSTEM, SECURITY, FACILITY, etc. Accepts up to 20 characters.
Heartbeat Message	A free-text field for customizing Heartbeat message text to your specific requirements. Example: Health Check, System Check, Heartbeat, etc. This field may be used in the trap messages to help identify the message. Accepts up to 20 characters.
Heartbeat Trap Type	Allows you to select from one of (12) pre-defined trap types to meet your specific NMS trap reporting requirements. Options: 1000=Inform1 (DEFAULT) 1500=Inform1Restore 2000=Inform2 2500=Inform2Restore 3000=Warn1 3500=Warn1Restore 4000=Warn2 4500=Warn2Restore 5000=Alarm1 5500=Alarm1Restore 6000=Alarm2 6500=Alarm2Restore Note: Entering a number other than what is specified here will result in a trap being sent with a trap number of the number entered.
Heartbeat Alarm Severity	SNMP Heartbeat severity. Used to assign one of (5) Alarm severity levels to the Heartbeat traps. Field may be used in the trap messages to help identify the message. Options: 0 = No Severity (DEFAULT) 1 = Minor 2 = Major 3 = Critical 4 = Informational 5 = Restore

TEMPERATURE

The Temperature tab configures the desired Warning and Alarm values (Set Points) for the COM3000s internal Temperature sensor. Options include High Alarm Set Point, High Warning Set Point, Low Warning Set Point and Low Alarm Set Point, naming the interface and selecting from a variety of alarm naming and numbering conventions and SNMP trap types.

Parameter Name	Description
Name	Customized Analog Input Name. A free-text field for naming the Temperature Input to your specific requirements. Example: Temperature, Site22 Temp, Device Temp, etc. This field may be used in the trap messages to help identify the message. Accepts up to 20 characters.
Current Temperature	Displays the current Temperature value.
High Temp Alarm Set Point	High Temperature Alarm Set Point is the highest Temperature value you wish to allow. Reaching this value will trigger a High Temp Alarm trap. Acceptable values range from 0.0 - 30.0, with .1 increments. (Example: 26.5).
High Temp Warning Set Point	High Temperature Warning Set Point is a higher Temperature value you wish to be warned about. Reaching this value will trigger a High Temp Warning trap. Acceptable values range from 0.0 - 30.0, with .1 increments. (Example: 20.2).
Low Temp Warning Set Point	Low Temperature Warning Set Point is a lower Temperature value you wish to be warned about. Reaching this value will trigger a Low Temp Warning trap. Acceptable values range from 0.0 - 30.0, with .1 increments. (Example: 5.2).
Low Temp Alarm Set Point	Low Temperature Alarm Set Point is the lowest Temperature value you wish to allow. Reaching this value will trigger a Low Temp Alarm trap. Acceptable values range from 0.0 - 30.0, with .1 increments. (Example: 1.5).
Temperature Traps	Enables or Disables the Temperature traps. Options: 0 = Disabled (DEFAULT) 1 = Enabled
Temperature Alarm Category	A free-text field for entering a category for the type of Temperature traps represents. Examples: MINOR, STATUS, INFORMATION, SYSTEM, etc. Accepts up to 20 characters.
Temperature Alarm Number	A numeric field used for assigning a user-defined alarm value to Temperature traps. nnnnn = (5 digit value with range between 1 and 65535).

Temperature Alarm Type	A free-text field for entering a user-defined value for the type of alarm the Temperature trap represents. Examples: SYSTEM, SECURITY, FACILITY, etc. Accepts up to 20 characters.
Normal Temp Message	Customized Normal Temperature Message. A free-text field for customizing normal state message text to your specific requirements. Example: Temp is Normal, Normal Temp, etc. This field may be used in the trap messages to help further clarify the event. Accepts up to 20 characters.
High Temp Alarm Message	Customized High Temp Alarm Message. A free-text field for customizing High Temp Alarm message text to your specific requirements. Example: Temp Alarm, High Temp, Emergency, etc. This field may be used in the trap messages to help further clarify the event. Accepts up to 20 characters.
High Temp Warning Message	Customized High Temp Warning Message. A free-text field for customizing High Temp Warning message text to your specific requirements. Example: High Temp Warning, Temp Rising, etc. This field may be used in the trap messages to help further clarify the event. Accepts up to 20 characters.
Low Temp Warning Message	Customized Low Temp Warning Message. A free-text field for customizing Low Temp Warning message text to your specific requirements. Example: Low Temp Warning, Temp Dropping, etc. This field may be used in the trap messages to help further clarify the event. Accepts up to 20 characters.
Low Temp Alarm Message	Customized Low Temp Alarm Message. A free-text field for customizing Low Temp Alarm message text to your specific requirements. Example: Temp Alarm, Low Temp, Emergency, etc. This field may be used in the trap messages to help further clarify the event. Accepts up to 20 characters.
Normal Temp Trap Type	<p>Allows you to select from one of (12) pre-defined trap types to meet your specific NMS trap reporting requirements.</p> <p>Options: 1000=Inform1 (DEFAULT) 1500=Inform1Restore 2000=Inform2 2500=Inform2Restore 3000=Warn1 3500=Warn1Restore 4000=Warn2 4500=Warn2Restore 5000=Alarm1 5500=Alarm1Restore 6000=Alarm2 6500=Alarm2Restore</p> <p>Note: Entering a number other than what is specified here will result in a trap being sent with a trap number of the number entered. This could result in issues for your NMS if that number is not supported in the COM3000 MIB.</p>

<p>High Temp Alarm Trap Type</p>	<p>Allows you to select from one of (12) pre-defined trap types to meet your specific NMS trap reporting requirements.</p> <p>Options: 1000=Inform1 (DEFAULT) 1500=Inform1 Restore 2000=Inform2 2500=Inform2 Restore 3000=Warn1 3500=Warn1 Restore 4000=Warn2 4500=Warn2 Restore 5000=Alarm1 5500=Alarm1 Restore 6000=Alarm2 6500=Alarm2 Restore</p> <p>Note: Entering a number other than what is specified here will result in a trap being sent with a trap number of the number entered. This could result in issues for your NMS if that number is not supported in the COM3000 MIB.</p>
<p>High Temp Warning Trap Type</p>	<p>Allows you to select from one of (12) pre-defined trap types to meet your specific NMS trap reporting requirements.</p> <p>Options: 1000=Inform1 (DEFAULT) 1500=Inform1 Restore 2000=Inform2 2500=Inform2 Restore 3000=Warn1 3500=Warn1 Restore 4000=Warn2 4500=Warn2 Restore 5000=Alarm1 5500=Alarm1 Restore 6000=Alarm2 6500=Alarm2 Restore</p> <p>Note: Entering a number other than what is specified here will result in a trap being sent with a trap number of the number entered. This could result in issues for your NMS if that number is not supported in the COM3000 MIB.</p>
<p>Low Temp Warning Trap Type</p>	<p>Allows you to select from one of (12) pre-defined trap types to meet your specific NMS trap reporting requirements.</p> <p>Options: 1000=Inform1 (DEFAULT) 1500=Inform1 Restore 2000=Inform2 2500=Inform2 Restore 3000=Warn1 3500=Warn1 Restore 4000=Warn2 4500=Warn2 Restore 5000=Alarm1 5500=Alarm1 Restore 6000=Alarm2 6500=Alarm2 Restore</p> <p>Note: Entering a number other than what is specified here will result in a trap being sent with a trap number of the number entered. This could result in issues for your NMS if that number is not supported in the COM3000 MIB.</p>

Low Temp Alarm Trap Type	<p>Allows you to select from one of (12) pre-defined trap types to meet your specific NMS trap reporting requirements.</p> <p>Options: 1000=Inform1 (DEFAULT) 1500=Inform1 Restore 2000=Inform2 2500=Inform2 Restore 3000=Warn1 3500=Warn1 Restore 4000=Warn2 4500=Warn2 Restore 5000=Alarm1 5500=Alarm1 Restore 6000=Alarm2 6500=Alarm2 Restore</p> <p>Note: Entering a number other than what is specified here will result in a trap being sent with a trap number of the number entered.</p>
Normal Temp Alarm Severity	<p>Used to assign one of (5) Alarm severity levels to the Normal Temp traps. Field may be used in the trap messages to help identify the message.</p> <p>Options: 0 = No Severity (DEFAULT) 1 = Minor 2 = Major 3 = Critical 4 = Informational 5 = Restore</p>
High Temp Alarm Alarm Severity	<p>Used to assign one of (5) Alarm severity levels to the High Temp Alarm traps. Field may be used in the trap messages to help identify the message.</p> <p>Options: 0 = No Severity (DEFAULT) 1 = Minor 2 = Major 3 = Critical 4 = Informational 5 = Restore</p>
High Temp Warning Alarm Severity	<p>Used to assign one of (5) Alarm severity levels to the High Temp Warning traps. Field may be used in the trap messages to help identify the message.</p> <p>Options: 0 = No Severity (DEFAULT) 1 = Minor 2 = Major 3 = Critical 4 = Informational 5 = Restore</p>
Low Temp Warning Alarm Severity	<p>Used to assign one of (5) Alarm severity levels to the Low Temp Warning traps. Field may be used in the trap messages to help identify the message.</p> <p>Options: 0 = No Severity (DEFAULT) 1 = Minor 2 = Major 3 = Critical 4 = Informational 5 = Restore</p>
Low Temp Alarm Alarm Severity	<p>Used to assign one of (5) Alarm severity levels to the Low Temp Alarm traps. Field may be used in the trap messages to help identify the message.</p> <p>Options: 0 = No Severity (DEFAULT) 1 = Minor 2 = Major 3 = Critical 4 = Informational 5 = Restore</p>

ANALOG INPUTS 1-4

The Analog Input tab is used to configure the desired Warning and Alarm values (Set Points). Options include High Alarm Set Point, High Warning Set Point, Low Warning Set Point and Low Alarm Set Point, naming the interface and selecting from a variety of alarm naming and numbering conventions and SNMP trap types.

Parameter Name	Description
Name	A free-text field for naming Analog Inputs to your specific requirements. Example: Temperature, Humidity, RPMs, Fuel Level, etc. This field may be used in the trap messages to help identify the message. Accepts up to 20 characters.
Current Value	Displays the current Analog value in Volts DC.
High Alarm Set Point	High Alarm Set Point is the highest analog value you wish to allow. Reaching this value will trigger a High Alarm trap. Acceptable values range from 0.0 - 30.0, with .1 increments. (Example: 26.5).
High Warning Set Point	High Warning Set Point is a higher analog value you wish to be warned about. Reaching this value will trigger a High Warning trap. Acceptable values range from 0.0 - 30.0, with .1 increments. (Example: 20.2).
Low Warning Set Point	Low Warning Set Point is a lower analog value you wish to be warned about. Reaching this value will trigger a High Warning trap. Acceptable values range from 0.0 - 30.0, with .1 increments. (Example: 5.2).
Low Alarm Set Point	Low Alarm Set Point is the lowest analog value you wish to allow. Reaching this value will trigger a Low Alarm trap. Acceptable values range from 0.0 - 30.0, with .1 increments. (Example: 1.5).
Minimum Analog Voltage	Minimum voltage output of the chosen sensor. Typically '0', but this may be 1 or 5. Check the sensor specifications for details..
Maximum Analog Voltage	Maximum voltage output of the chosen sensor. May not be greater than 30 VDC. Check the sensor specifications for details.
Minimum Output Display	Lowest range value of the chosen sensor. This is the lower end of whatever range you are trying to measure within. If you were using a temperature probe that had the ability to measure from 32°F-212°F, you would enter the value 32.
Maximum Output Display	Highest range value of the chosen sensor. This is the higher end of whatever range you are trying to measure within. If you were using a temperature probe that had the ability to measure from 32°F-212°F, you would enter the value 212.

Output Display Extension	<p>Free text extension appended to the analog value output. Examples of text you may want to enter include:</p> <table border="1"> <thead> <tr> <th><i>If you are measuring....</i></th><th><i>You may want to enter the word...</i></th></tr> </thead> <tbody> <tr> <td>Temperature</td><td>° F</td></tr> <tr> <td>Pressure</td><td>PSI</td></tr> <tr> <td>Speed</td><td>MPH</td></tr> <tr> <td>Flow</td><td>GPM (Gallons p/minute)</td></tr> <tr> <td>Brewery Output</td><td>Glasses of Beer</td></tr> </tbody> </table>	<i>If you are measuring....</i>	<i>You may want to enter the word...</i>	Temperature	° F	Pressure	PSI	Speed	MPH	Flow	GPM (Gallons p/minute)	Brewery Output	Glasses of Beer
<i>If you are measuring....</i>	<i>You may want to enter the word...</i>												
Temperature	° F												
Pressure	PSI												
Speed	MPH												
Flow	GPM (Gallons p/minute)												
Brewery Output	Glasses of Beer												
Calibration	<p>Calibrates the COM3000 to match the actual current sensor reading. If you know the ACTUAL value being measured, you would enter that real value. The COM3000 will take its current reading, and perform a calculation to come up with the offset so as to give you a more accurate reading going forward.</p> <p>Example: The COM3000 sees the temperature in the room as 76 °F. You believe that the temperature of the room is 74 °F. You would enter the value of '74 and the COM3000 would use an offset of '2'. The temperature would now show the reading as 74 °F.</p>												
Analog Input Traps	<p>Enables or Disables the Analog Input traps. Options: 0 = Disabled (DEFAULT) 1 = Enabled</p>												
Analog Input Alarm Category	<p>A free-text field for entering a category for the type of alarms Analog Input traps represents. Examples: MINOR, STATUS, INFORMATION, SYSTEM, etc. Accepts up to 20 characters.</p>												
Analog Input Alarm Number	<p>A numeric field used for assigning a user-defined alarm value to Analog Input traps. nnnnn = (5 digit value with range between 1 and 65535).</p>												
Analog Input Alarm Type	<p>A free-text field for entering a user-defined value for the type of alarm the Analog Input trap represents. Examples: SYSTEM, SECURITY, FACILITY, etc. Accepts up to 20 characters.</p>												
Normal Analog Input Message	<p>Customized Normal Message. A free-text field for customizing Normal state message text to your specific requirements. Example: Temp is Normal, Normal Temp, etc. This field may be used in the trap messages to help further clarify the event. Accepts up to 20 characters.</p>												
High Alarm Message	<p>A free-text field for customizing High Alarm message text to your specific requirements. Example: Level Alarm, High Alarm, Emergency, etc. This field may be used in the trap messages to help further clarify the event. Accepts up to 20 characters.</p>												
High Warning Message	<p>A free-text field for customizing High Warning message text to your specific requirements. Example: Level Warn, Water Intrusion, etc. This field may be used in the trap messages to help further clarify the event. Accepts up to 20 characters.</p>												
Low Warning Message	<p>A free-text field for customizing Low Warning message text to your specific requirements. Example: Low Level Warn, Refuel, etc. This field may be used in the trap messages to help further clarify the event. Accepts up to 20 characters.</p>												

Low Alarm Message	<p>A free-text field for customizing Low Alarm message text to your specific requirements. Example: Low Level Alarm, Fuel Emergency, etc. This field may be used in the trap messages to help further clarify the event. Accepts up to 20 characters.</p>
Normal State Trap Type	<p>Allows you to select from one of (12) pre-defined trap types to meet your specific NMS trap reporting requirements.</p> <p>Options: 1000=Inform1 (DEFAULT) 1500=Inform1 Restore 2000=Inform2 2500=Inform2 Restore 3000=Warn1 3500=Warn1 Restore 4000=Warn2 4500=Warn2 Restore 5000=Alarm1 5500=Alarm1 Restore 6000=Alarm2 6500=Alarm2 Restore</p> <p>Note: Entering a number other than what is specified here will result in a trap being sent with a trap number of the number entered. This could result in issues for your NMS if that number is not supported in the COM3000 MIB.</p>
High Alarm Trap Type	<p>Allows you to select from one of (12) pre-defined trap types to meet your specific NMS trap reporting requirements.</p> <p>Options: 1000=Inform1 (DEFAULT) 1500=Inform1 Restore 2000=Inform2 2500=Inform2 Restore 3000=Warn1 3500=Warn1 Restore 4000=Warn2 4500=Warn2 Restore 5000=Alarm1 5500=Alarm1 Restore 6000=Alarm2 6500=Alarm2 Restore</p> <p>Note: Entering a number other than what is specified here will result in a trap being sent with a trap number of the number entered. This could result in issues for your NMS if that number is not supported in the COM3000 MIB.</p>

<p>High Warning Trap Type</p>	<p>Allows you to select from one of (12) pre-defined trap types to meet your specific NMS trap reporting requirements.</p> <p>Options: 1000=Inform1 (DEFAULT) 1500=Inform1 Restore 2000=Inform2 2500=Inform2 Restore 3000=Warn1 3500=Warn1 Restore 4000=Warn2 4500=Warn2 Restore 5000=Alarm1 5500=Alarm1 Restore 6000=Alarm2 6500=Alarm2 Restore</p> <p>Note: Entering a number other than what is specified here will result in a trap being sent with a trap number of the number entered. This could result in issues for your NMS if that number is not supported in the COM3000 MIB.</p>
<p>Low Warning Trap Type</p>	<p>Allows you to select from one of (12) pre-defined trap types to meet your specific NMS trap reporting requirements.</p> <p>Options: 1000=Inform1 (DEFAULT) 1500=Inform1 Restore 2000=Inform2 2500=Inform2 Restore 3000=Warn1 3500=Warn1 Restore 4000=Warn2 4500=Warn2 Restore 5000=Alarm1 5500=Alarm1 Restore 6000=Alarm2 6500=Alarm2 Restore</p> <p>Note: Entering a number other than what is specified here will result in a trap being sent with a trap number of the number entered. This could result in issues for your NMS if that number is not supported in the COM3000 MIB.</p>
<p>Low Alarm Trap Type</p>	<p>Allows you to select from one of (12) pre-defined trap types to meet your specific NMS trap reporting requirements.</p> <p>Options: 1000=Inform1 (DEFAULT) 1500=Inform1 Restore 2000=Inform2 2500=Inform2 Restore 3000=Warn1 3500=Warn1 Restore 4000=Warn2 4500=Warn2 Restore 5000=Alarm1 5500=Alarm1 Restore 6000=Alarm2 6500=Alarm2 Restore</p> <p>Note: Entering a number other than what is specified here will result in a trap being sent with a trap number of the number entered. This could result in issues for your NMS if that number is not supported in the COM3000 MIB.</p>

Normal State Severity	Used to assign one of (5) Alarm severity levels to the Analog Input High Alarm traps. Field may be used in the trap messages to help identify the message. Options: 0 = No Severity (DEFAULT) 1 = Minor 2 = Major 3 = Critical 4 = Informational 5 = Restore
High Alarm Alarm Severity	Used to assign one of (5) Alarm severity levels to the Analog Input High Alarm traps. Field may be used in the trap messages to help identify the message. Options: 0 = No Severity (DEFAULT) 1 = Minor 2 = Major 3 = Critical 4 = Informational 5 = Restore
High Warning Alarm Severity	Used to assign one of (5) Alarm severity levels to the Analog Input High Warning traps. Field may be used in the trap messages to help identify the message. Options: 0 = No Severity (DEFAULT) 1 = Minor 2 = Major 3 = Critical 4 = Informational 5 = Restore
Low Warning Alarm Severity	Used to assign one of (5) Alarm severity levels to the Analog Input Low Warning traps. Field may be used in the trap messages to help identify the message. Options: 0 = No Severity (DEFAULT) 1 = Minor 2 = Major 3 = Critical 4 = Informational 5 = Restore
Low Alarm Alarm Severity	Used to assign one of (5) Alarm severity levels to the Analog Input Low Alarm traps. Field may be used in the trap messages to help identify the message. Options: 0 = No Severity (DEFAULT) 1 = Minor 2 = Major 3 = Critical 4 = Informational 5 = Restore

DIGITAL INPUT (1-12)

The (4) Digital Inputs provide the ability to capture contact closures and send SNMP trap notifications that an event has occurred. The (4) Digital Input tabs are used to configure these inputs with unique Active and Inactive state names and messages. Options include naming the interfaces, selecting contact closure/switch types, as well as selecting from a variety of alarm naming and numbering conventions and SNMP trap types.

Parameter Name	Description
Name	Customized Digital Input Name. A free-text field for naming each Digital Input to your specific requirements. Example: Cabinet #1, Front Door, Rear Window, etc. This field may be used in the trap messages to help identify the message. Accepts up to 20 characters.
Current Value	Displays the current Digital Input value.
Current Count	Displays the current Digital Input count.
Switch Type	Digital Input Switch Type. The chosen selection will be considered the INACTIVE STATE for all of the events and messages. For example, if the switch is Normally Open, then an open switch is INACTIVE. When the switch is closed, it becomes ACTIVE. The same is true for the reverse. If the switch is Normally Closed, then a closed switch is INACTIVE and open is considered ACTIVE. Options: 0 = Normally Closed 1 = Normally Open
Delay Timer	Time interval to wait before reporting a change in the Digital Input state. Options: 0 = None (No delay. Normal time of 100ms will apply) 1-65535 = number of seconds
Digital Input Traps	Enables or Disables the Digital Input traps. Options: 0 = Disabled (DEFAULT) 1 = Enabled
Digital Input Alarm Category	A free-text field for entering a category for the type of alarms Digital Input traps represent. Examples: MINOR, STATUS, INFORMATION, SYSTEM, etc. Accepts up to 20 characters.
Digital Input Alarm Number	A numeric field used for assigning a user-defined alarm value to Analog Input traps. nnnnn = (5 digit value with range between 1 and 65535).
Digital Input Alarm Type	A free-text field for entering a user-defined value for the type of alarm the Digital Input trap represents. Examples: SYSTEM, SECURITY, FACILITY, etc. Accepts up to 20 characters.
Active State Message	A free-text field for customizing the Active State message text to your specific requirements. Example: Open, Intrusion, Check UPS, Input Failure, etc. This field may be used in the trap messages to help identify the message. Accepts up to 20 characters.

Inactive State Message	A free-text field for customizing the Inactive State message text to your specific requirements. Example: Closed, Secure, UPS OK, Input Restored, etc. This field may be used in the trap messages to help identify the message. Accepts up to 20 characters.
Active State Trap Type	<p>Allows you to select from one of (12) pre-defined trap types to meet your specific NMS trap reporting requirements.</p> <p>Options: 1000=Inform1 (DEFAULT) 1500=Inform1 Restore 2000=Inform2 2500=Inform2 Restore 3000=Warn1 3500=Warn1 Restore 4000=Warn2 4500=Warn2 Restore 5000=Alarm1 5500=Alarm1 Restore 6000=Alarm2 6500=Alarm2 Restore</p> <p>Note: Entering a number other than what is specified here will result in a trap being sent with a trap number of the number entered.</p>
Inactive State Trap Type	<p>Allows you to select from one of (12) pre-defined trap types to meet your specific NMS trap reporting requirements.</p> <p>Options: 1000=Inform1 (DEFAULT) 1500=Inform1 Restore 2000=Inform2 2500=Inform2 Restore 3000=Warn1 3500=Warn1 Restore 4000=Warn2 4500=Warn2 Restore 5000=Alarm1 5500=Alarm1 Restore 6000=Alarm2 6500=Alarm2 Restore</p> <p>Note: Entering a number other than what is specified here will result in a trap being sent with a trap number of the number entered.</p>
Active State Alarm Severity	<p>Used to assign one of (5) Alarm severity levels to the Active State traps. Field may be used in the trap messages to help identify the message.</p> <p>Options: 0 = No Severity (DEFAULT) 1 = Minor 2 = Major 3 = Critical 4 = Informational 5 = Restore</p>
Inactive State Alarm Severity	<p>Used to assign one of (5) Alarm severity levels to the Inactive State traps. Field may be used in the trap messages to help identify the message.</p> <p>Options: 0 = No Severity (DEFAULT) 1 = Minor 2 = Major 3 = Critical 4 = Informational 5 = Restore</p>

RELAY (1 and 2)

The on-board relay provides the ability to Open and Close a circuit, giving the device the ability to control external devices, such as lighting systems, motors, alarms, etc.

Parameter Name	Description
Name	Customized Relay Name. A free-text field for naming Relay to your specific requirements. Example: Motor, Alarm, Lights, etc. Accepts up to 20 characters.
Current State	Displays or changes current state of RELAY. Command without '=n' will display state. Including '=n' will change the state. Options: 0 = DE-ENERGIZE Relay (Turn it OFF) 1 = ENERGIZE Relay. (Turn it ON)
Relay 'On' Alias	Customizable Relay ON command. This is a free-text field to be used to create a term to be interpreted as the *RON AT Command. Example: entering the term ' <i>engine-on</i> ' would allow for the term 'engine-on' to be used as a command to ENERGIZE the relay. (Accepts up to 20 characters).
Relay 'Off' Alias	Customizable Relay OFF command. This is a free-text field to be used to create a term to be interpreted as the *ROFF AT Command. Example: entering the term ' <i>engine-off</i> ' would allow for the term 'engine-off' to be used as a command to DE-ENERGIZE the relay. (Accepts up to 20 characters).
Relay Auto-Off Time	Interval of timer the relay will stay energized after being turned on. Options: 0 = not active (No auto-off feature) 1-65535 = number of seconds (65535 sec = 18.2 hours)

WIEGAND/Card Reader Input (1 and 2)

This command set is for versions of the COM3000 with support for a Wiegand card reader interface. For those devices, the COM3000 has the ability to read card the prox card or swipe card data and send an SNMP trap. With a locally hosted access list of up to 50 unique card IDs, the COM3000 can also compare the card info it to a local list, and then activate the relays to control an external mechanism such as a door lock.

Parameter Name	Description
Input 1 Name	Customized Name for the Wiegand interface. A free-text field for naming the Wiegand to your specific requirements. Example: Front Door, Rear Door, etc. Accepts up to 20 characters.
Input 1 Relay Control	Enables or Disables energizing the Relay on a successful card match. Options: 0 = Disabled (DEFAULT) 1 = Enabled
Input 2 Name	Customized Name for the Wiegand interface. A free-text field for naming the Wiegand to your specific requirements. Example: Front Door, Rear Door, etc. Accepts up to 20 characters.
Input 2 Relay Control	Enables or Disables energizing the Relay on a successful card match. Options: 0 = Disabled (DEFAULT) 1 = Enabled
Disabled User Traps	Enables or Disables the sending of traps for Disabled/Inactive Users or ID Cards. Options: 0 = Disabled (DEFAULT) (Do NOT send traps for disabled cards) 1 = Enabled (Send traps for Disabled cards)
Enabled User Traps	Enables or Disables the sending of traps for Enabled/Active Users or ID Cards. Options: 0 = Disabled (DEFAULT) (Do NOT send traps for Enabled cards) 1 = Enabled (Send traps for Enabled cards)
Disabled User Alarm Category	A free-text field for entering a category for the type of alarms a Disabled/Inactive User trap represents. Examples: MINOR, STATUS, INFORMATION, SYSTEM, etc. Accepts up to 20 characters.
Enabled User Alarm Category	A free-text field for entering a category for the type of alarms Enabled User traps represents. Examples: MINOR, STATUS, INFORMATION, SYSTEM, etc. Accepts up to 20 characters.
Disabled User Alarm Number	A numeric field used for assigning a user-defined alarm value to Disabled/Inactive User traps. nnnnn = (5 digit value with range between 1 and 65535).
Enabled User Alarm Number	A numeric field used for assigning a user-defined alarm value to Enabled/Active User traps. nnnnn = (5 digit value with range between 1 and 65535).

Disabled User Alarm Type	A free-text field for entering a user-defined value for the type of alarm Disabled/Inactive User traps represents. Examples: SYSTEM, SECURITY, FACILITY, etc. Accepts up to 20 characters.
Enabled User Alarm Type	A free-text field for entering a user-defined value for the type of alarm Enabled/Active User traps represents. Examples: SYSTEM, SECURITY, FACILITY, etc. Accepts up to 20 characters.
Disabled User Trap Type	<p>Allows you to select from one of (12) pre-defined trap types to meet your specific NMS trap reporting requirements.</p> <p>Options: 1000=Inform1 (DEFAULT) 1500=Inform1 Restore 2000=Inform2 2500=Inform2 Restore 3000=Warn1 3500=Warn1 Restore 4000=Warn2 4500=Warn2 Restore 5000=Alarm1 5500=Alarm1 Restore 6000=Alarm2 6500=Alarm2 Restore</p> <p>Note: Entering a number other than what is specified here will result in a trap being sent with a trap number of the number entered. This could result in issues for your NMS if that number is not supported in the COM3000 MIB.</p>
Enabled User Trap Type	<p>Allows you to select from one of (12) pre-defined trap types to meet your specific NMS trap reporting requirements.</p> <p>Options: 1000=Inform1 (DEFAULT) 1500=Inform1 Restore 2000=Inform2 2500=Inform2 Restore 3000=Warn1 3500=Warn1 Restore 4000=Warn2 4500=Warn2 Restore 5000=Alarm1 5500=Alarm1 Restore 6000=Alarm2 6500=Alarm2 Restore</p> <p>Note: Entering a number other than what is specified here will result in a trap being sent with a trap number of the number entered. This could result in issues for your NMS if that number is not supported in the COM3000 MIB.</p>

<p>USERS (1-50)</p>	<p>Sets the user (Card ID) list. Entries should have the following comma delimited values:</p> <p>Card Number, Facility Code, First Name, Last Name, Card Status (Enabled/Disabled), trap Severity (0-5), Phone, Company Name</p> <p>Entry syntax:</p> <p>Card Number: 5-digit number (nnnnn)</p> <p>Facility Code: 3-digit number (nnn)</p> <p>First Name: Free-text field – supports up to 20 characters</p> <p>Last Name: Free-text field – supports up to 20 characters</p> <p>Card Status: 0 or 1 (See below)</p> <p>Trap Severity: 0-5 (See list below)</p> <p>Phone #: Free-text field – supports up to 20 characters</p> <p>Company: Free-text field – supports up to 20 characters</p> <p><u>Card Status:</u> Allows users/cards to remain in the system but be treated differently. Disabled cards will not be able to activate the relay, but will result in a trap (providing that Disabled User traps are enabled). Options: 0= Disabled (DEFAULT) 1=Enabled</p> <p><u>Trap Severity:</u> Unlike the other inputs, Wiegand TRAP SEVERITY is inserted into the user configuration. This allows the customer to modify the trap severities or specific users regardless of whether or not the user/card is enabled or disabled. Options: 0 = No Severity (DEFAULT) 1 = Minor 2 = Major 3 = Critical 4 = Informational 5 = Restore</p> <p><u>Entry samples:</u> USER01:16761,1,John,Doe,1,4,555-555-1212,Global Security USER02:14462,1,Fred,Smith,1,4,888-888-1212,University Staff USER03:13224,1,Allen,Francis,0,2,877-777-1212,University Student USER03:13224,1,George,Bush,1,2,999-999-1212,US Government</p>
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APPENDIX A

COM3000

Managed Object Identifiers

sctIdent: DEVICE IDENTIFICATION OBJECTS

The managed objects described in this section are READ-ONLY.

1. Model

MIB Name: sctModel

OID Number: .1.3.6.1.4.1.27404.3.3.0.1.0

2. MAC Address

MIB Name: sctMACAddress

OID Number: .1.3.6.1.4.1.27404.3.3.0.2.0

3. Serial Number

MIB Name: sctSerialNumber

OID Number: .1.3.6.1.4.1.27404.3.3.0.3.0

4. Firmware Version

MIB Name: sctFirmwareVersion

OID Number: .1.3.6.1.4.1.27404.3.3.0.4.0

sctConfig:

deviceGeneral: GENERAL CONFIGURATION OBJECTS

The managed objects described in this section are READ-WRITE.

1. Hostname

MIB Name: sctHostname

OID Number: .1.3.6.1.4.1.27404.3.3.1.1.1.0

2. Location

MIB Name: sctLocation

OID Number: .1.3.6.1.4.1.27404.3.3.1.1.2.0

3. Description

MIB Name: sctDescription

OID Number: .1.3.6.1.4.1.27404.3.1.1.1.3.0

4. IP Address

MIB Name: sctIPAddress

OID Number: .1.3.6.1.4.1.27404.3.1.1.1.4.0

5. Default Gateway

MIB Name: sctDefaultGateway

OID Number: .1.3.6.1.4.1.27404.3.1.1.1.5.0

6. Net Mask

MIB Name: sctNetMask

OID Number: .1.3.6.1.4.1.27404.3.1.1.1.6.0

7. Default Interface**MIB Name:** sctDefaultInterface**OID Number:** .1.3.6.1.4.1.27404.3.1.1.1.7.0**8. <RESERVED>****MIB Name:****OID Number:** .1.3.6.1.4.1.27404.3.1.1.1.8.0**9. <RESERVED>****MIB Name:****OID Number:** .1.3.6.1.4.1.27404.3.1.1.1.9.0**10. Date****MIB Name:** sctDate**OID Number:** .1.3.6.1.4.1.27404.3.1.1.1.10.0**11. Time****MIB Name:** sctTime**OID Number:** .1.3.6.1.4.1.27404.3.1.1.1.11.0**12. Network Time Server IP Address****MIB Name:** sctRTCIPAddress**OID Number:** .1.3.6.1.4.1.27404.3.1.1.1.12.0**13. Network Time Server Update Timer****MIB Name:** sctRTCUpdateTimer**OID Number:** .1.3.6.1.4.1.27404.3.1.1.1.13.0**14. Time Zone****MIB Name:** sctRTCTimeZone**OID Number:** .1.3.6.1.4.1.27404.3.1.1.1.14.0**15. Daylight Savings Time (DST)****MIB Name:** sctDST**OID Number:** .1.3.6.1.4.1.27404.3.1.1.15**sctConfig:****deviceModem: MODEM CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Modem Baud Rate**MIB Name:** sctModemBaud**OID Number:** .1.3.6.1.4.1.27404.3.3.1.2.1.0**sctConfig:****deviceTermPort: TERMINAL PORT CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Terminal Port Baud Rate**MIB Name:** sctTermBaud**OID Number:** .1.3.6.1.4.1.27404.3.3.1.3.1.0

sctConfig:**device485Port: RS485 PORT CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Terminal Port Baud Rate

MIB Name: sct485Baud

OID Number: .1.3.6.1.4.1.27404.3.3.1.4.1.0

sctConfig:**deviceDNS: DNS CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Primary DNS Server

MIB Name: sctDNS1

OID Number: .1.3.6.1.4.1.27404.3.3.1.5.1.0

2. Secondary DNS Server

MIB Name: sctDNS2

OID Number: .1.3.6.1.4.1.27404.3.3.1.5.2.0

sctConfig:**deviceSNMP:****deviceNMS: NMS CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Primary Network Management System (NMS)

MIB Name: sctNMSAddress1

OID Number: .1.3.6.1.4.1.27404.3.3.1.6.1.1.0

2. Secondary Network Management System (NMS)

MIB Name: sctNMSAddress2

OID Number: .1.3.6.1.4.1.27404.3.3.1.6.1.2.0

3. Network Management System SNMP Port

MIB Name: sctNMSPort

OID Number: .1.3.6.1.4.1.27404.3.3.1.6.1.3.0

4. Network Management System Trap Port

MIB Name: sctNMSTrapPort

OID Number: .1.3.6.1.4.1.27404.3.3.1.6.1.4.0

sctConfig:**deviceSNMP:****deviceNMS: TRAP CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Trap Message Method

MIB Name: sctTrapMsgMethod

OID Number: .1.3.6.1.4.1.27404.3.3.1.6.2.1.0

2. Trap Message Format

MIB Name: sctTrapMsgFormat

OID Number: .1.3.6.1.4.1.27404.3.3.1.6.2.2.0

3. Trap Message Delimiter

MIB Name: sctTrapMsgDelimiter

OID Number: .1.3.6.1.4.1.27404.3.3.1.6.2.3.0

4. Trap Message Retry Timer

MIB Name: sctTrapRetryTimer

OID Number: .1.3.6.1.4.1.27404.3.3.1.6.2.4.0

sctConfig:**deviceSNMP:****deviceNMS: COLDSTART CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Cold Start Name

MIB Name: sctColdStartName

OID Number: .1.3.6.1.4.1.27404.3.3.1.6.3.1.0

2. Cold Start Traps Enabled

MIB Name: sctColdStart

OID Number: .1.3.6.1.4.1.27404.3.3.1.6.3.2.0

3. Cold Start Alarm Category

MIB Name: sctColdStartAlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.6.3.3.0

4. Cold Start Alarm Number

MIB Name: sctColdStartAlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.6.3.4.0

5. Cold Start Alarm Type

MIB Name: sctColdStartAlarmType

OID Number: .1.3.6.1.4.1.27404.3.3.1.6.3.5.0

6. Cold Start Message

MIB Name: sctColdStartMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.6.3.6.0

7. Cold Start Trap Type

MIB Name: sctColdStartTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.6.3.7.0

8. Cold Start Alarm Severity**MIB Name:** sctColdStartAlarmSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.6.3.8.0**sctConfig:****deviceSNMP:****deviceNMS:** HEARTBEAT CONFIGURATION OBJECTS

The managed objects described in this section are READ-WRITE.

1. Heartbeat Name**MIB Name:** sctHeartbeatName**OID Number:** .1.3.6.1.4.1.27404.3.3.1.6.4.1.0**2. Heartbeat Traps Enabled****MIB Name:** sctHeartbeat**OID Number:** .1.3.6.1.4.1.27404.3.3.1.6.4.2.0**3. Heartbeat Timer****MIB Name:** sctHeartbeatTimer**OID Number:** .1.3.6.1.4.1.27404.3.3.1.6.4.3.0**4. Heartbeat Time of Day****MIB Name:** sctHeartbeatTOD**OID Number:** .1.3.6.1.4.1.27404.3.3.1.6.4.4.0**5. Heartbeat Alarm Category****MIB Name:** sctHeartbeatAlarmCategory**OID Number:** .1.3.6.1.4.1.27404.3.3.1.6.4.5.0**6. Heartbeat Alarm Number****MIB Name:** sctHeartbeatAlarmNumber**OID Number:** .1.3.6.1.4.1.27404.3.3.1.6.4.6.0**7. Heartbeat Alarm Type****MIB Name:** sctHeartbeatAlarmType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.6.4.7.0**8. Heartbeat Messgae****MIB Name:** sctHeartbeatMessage**OID Number:** .1.3.6.1.4.1.27404.3.3.1.6.4.8.0**9. Heartbeat Trap Type****MIB Name:** sctHeartbeatTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.6.4.9.0**10. Heartbeat Alarm Severity****MIB Name:** sctHeartbeatAlarmSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.6.4.10.0**sctConfig:****deviceAnalogInput:****a1Config:** ANALOG INPUT 1 CONFIGURATION OBJECTS

The managed objects described in this section are READ-WRITE.

1. Analog Input 1 Name

MIB Name: a1Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.1.0

2. Analog Input 1 High Alarm Set Point

MIB Name: a1HighAlarmSetPoint

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.2.0

3. Analog Input 1 High Warn Set Point

MIB Name: a1HighWarnSetPoint

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.3.0

4. Analog Input 1 Low Warn Set Point

MIB Name: a1HighAlarmSetPoint

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.4.0

5. Analog Input 1 Low Alarm Set Point

MIB Name: a1HighWarnSetPoint

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.5.0

6. Analog Input 1 Minimum Voltage

MIB Name: a1MinVolt

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.6.0

7. Analog Input 1 Maximum Voltage

MIB Name: a1MaxVolt

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.7.0

8. Analog Input 1 Minimum Display

MIB Name: a1MinDisplay

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.8.0

9. Analog Input 1 Maximum Display

MIB Name: a1MaxDisplay

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.9.0

10. Analog Input 1 Display Extension

MIB Name: a1MinDisplay

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.10.0

11. Analog Input 1 Maximum Display

MIB Name: a1MaxDisplay

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.11.0

12. Analog Input 1 Traps

MIB Name: a1Traps

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.12.0

13. Analog Input 1 Category

MIB Name: a1AlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.13.0

14. Analog Input 1 Trap Alarm Number

MIB Name: a1AlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.14.0

15. Analog Input 1 Alarm Type

MIB Name: a1AlarmType

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.15.0

16. Analog Input 1 Normal Level Message

MIB Name: a1NormalMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.16.0

17. Analog Input 1 High Alarm Message

MIB Name: a1HighAlarmMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.17.0

18. Analog Input 1 High Warning Message

MIB Name: a1HighWarnMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.18.0

19. Analog Input 1 Low Warning Message

MIB Name: a1LowWarnMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.19.0

20. Analog Input 1 Low Alarm Message

MIB Name: a1LowAlarmMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.20.0

21. Analog Input 1 Normal Level Trap Type

MIB Name: a1NormalTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.21.0

22. Analog Input 1 High Alarm Trap Type

MIB Name: a1HighAlarmTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.22.0

23. Analog Input 1 High Warning Trap Type

MIB Name: a1HighWarnTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.23.0

24. Analog Input 1 Low Warning Trap Type

MIB Name: a1LowWarnTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.24.0

25. Analog Input 1 Low Alarm Trap Type

MIB Name: a1LowAlarmTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.25.0

26. Analog Input 1 Normal Level Trap Severity

MIB Name: a1NormalSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.26.0

27. Analog Input 1 High Alarm Trap Severity

MIB Name: a1HighAlarmSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.27.0

28. Analog Input 1 High Warning Trap Severity

MIB Name: a1HighWarnSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.28.0

29. Analog Input 1 Low Warning Trap Severity

MIB Name: a1LowWarnSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.29.0

30. Analog Input 1 Low Alarm Trap Severity

MIB Name: a1LowAlarmSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.1.30.0

sctConfig:**deviceAnalogInput:****a2Config: ANALOG INPUT 2 CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Analog Input 2 Name

MIB Name: a1Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.1.0

2. Analog Input 2 High Alarm Set Point

MIB Name: a1HighAlarmSetPoint

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.2.0

3. Analog Input 2 High Warn Set Point

MIB Name: a1HighWarnSetPoint

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.3.0

4. Analog Input 2 Low Warn Set Point

MIB Name: a1HighAlarmSetPoint

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.4.0

5. Analog Input 2 Low Alarm Set Point

MIB Name: a1HighWarnSetPoint

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.5.0

6. Analog Input 2 Minimum Voltage

MIB Name: a1MinVolt

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.6.0

7. Analog Input 2 Maximum Voltage

MIB Name: a1MaxVolt

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.7.0

8. Analog Input 2 Minimum Display

MIB Name: a1MinDisplay

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.8.0

9. Analog Input 2 Maximum Display

MIB Name: a1MaxDisplay

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.9.0

10. Analog Input 2 Display Extension

MIB Name: a1MinDisplay

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.10.0

11. Analog Input 2 Maximum Display

MIB Name: a1MaxDisplay

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.11.0

12. Analog Input 2 Traps

MIB Name: a1Traps

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.12.0

13. Analog Input 2 Category

MIB Name: a1AlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.13.0

- 14. Analog Input 2 Trap Alarm Number**
MIB Name: a1AlarmNumber
OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.14.0
- 15. Analog Input 2 Alarm Type**
MIB Name: a1AlarmType
OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.15.0
- 16. Analog Input 2 Normal Level Message**
MIB Name: a1NormalMessage
OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.16.0
- 17. Analog Input 2 High Alarm Message**
MIB Name: a1HighAlarmMessage
OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.17.0
- 18. Analog Input 2 High Warning Message**
MIB Name: a1HighWarnMessage
OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.18.0
- 19. Analog Input 2 Low Warning Message**
MIB Name: a1LowWarnMessage
OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.19.0
- 20. Analog Input 2 Low Alarm Message**
MIB Name: a1LowAlarmMessage
OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.20.0
- 21. Analog Input 2 Normal Level Trap Type**
MIB Name: a1NormalTrapType
OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.21.0
- 22. Analog Input 2 High Alarm Trap Type**
MIB Name: a1HighAlarmTrapType
OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.22.0
- 23. Analog Input 2 High Warning Trap Type**
MIB Name: a1HighWarnTrapType
OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.23.0
- 24. Analog Input 2 Low Warning Trap Type**
MIB Name: a1LowWarnTrapType
OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.24.0
- 25. Analog Input 2 Low Alarm Trap Type**
MIB Name: a1LowAlarmTrapType
OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.25.0
- 26. Analog Input 2 Normal Level Trap Severity**
MIB Name: a1NormalSeverity
OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.26.0
- 27. Analog Input 2 High Alarm Trap Severity**
MIB Name: a1HighAlarmSeverity
OID Number: .1.3.6.1.4.1.27404.3.3.1.7.2.27.0

28. Analog Input 2 High Warning Trap Severity**MIB Name:** a1HighWarnSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.2.28.0**29. Analog Input 2 Low Warning Trap Severity****MIB Name:** a1LowWarnSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.2.29.0**30. Analog Input 2 Low Alarm Trap Severity****MIB Name:** a1LowAlarmSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.2.30.0**sctConfig:****deviceAnalogInput:****a3Config: ANALOG INPUT 3 CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Analog Input 3 Name**MIB Name:** a1Name**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.1.0**2. Analog Input 3 High Alarm Set Point****MIB Name:** a1HighAlarmSetPoint**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.2.0**3. Analog Input 3 High Warn Set Point****MIB Name:** a1HighWarnSetPoint**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.3.0**4. Analog Input 3 Low Warn Set Point****MIB Name:** a1HighAlarmSetPoint**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.4.0**5. Analog Input 3 Low Alarm Set Point****MIB Name:** a1HighWarnSetPoint**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.5.0**6. Analog Input 3 Minimum Voltage****MIB Name:** a1MinVolt**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.6.0**7. Analog Input 3 Maximum Voltage****MIB Name:** a1MaxVolt**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.7.0**8. Analog Input 3 Minimum Display****MIB Name:** a1MinDisplay**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.8.0**9. Analog Input 3 Maximum Display****MIB Name:** a1MaxDisplay**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.9.0

10. Analog Input 3 Display Extension**MIB Name:** a1MinDisplay**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.10.0**11. Analog Input 3 Maximum Display****MIB Name:** a1MaxDisplay**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.11.0**12. Analog Input 3 Traps****MIB Name:** a1Traps**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.12.0**13. Analog Input 3 Category****MIB Name:** a1AlarmCategory**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.13.0**14. Analog Input 3 Trap Alarm Number****MIB Name:** a1AlarmNumber**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.14.0**15. Analog Input 3 Alarm Type****MIB Name:** a1AlarmType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.15.0**16. Analog Input 3 Normal Level Message****MIB Name:** a1NormalMessage**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.16.0**17. Analog Input 3 High Alarm Message****MIB Name:** a1HighAlarmMessage**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.17.0**18. Analog Input 3 High Warning Message****MIB Name:** a1HighWarnMessage**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.18.0**19. Analog Input 3 Low Warning Message****MIB Name:** a1LowWarnMessage**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.19.0**20. Analog Input 3 Low Alarm Message****MIB Name:** a1LowAlarmMessage**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.20.0**21. Analog Input 3 Normal Level Trap Type****MIB Name:** a1NormalTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.21.0**22. Analog Input 3 High Alarm Trap Type****MIB Name:** a1HighAlarmTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.22.0**23. Analog Input 3 High Warning Trap Type****MIB Name:** a1HighWarnTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.23.0

24. Analog Input 3 Low Warning Trap Type**MIB Name:** a1LowWarnTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.24.0**25. Analog Input 3 Low Alarm Trap Type****MIB Name:** a1LowAlarmTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.25.0**26. Analog Input 3 Normal Level Trap Severity****MIB Name:** a1NormalSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.26.0**27. Analog Input 3 High Alarm Trap Severity****MIB Name:** a1HighAlarmSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.27.0**28. Analog Input 3 High Warning Trap Severity****MIB Name:** a1HighWarnSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.28.0**29. Analog Input 3 Low Warning Trap Severity****MIB Name:** a1LowWarnSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.29.0**30. Analog Input 3 Low Alarm Trap Severity****MIB Name:** a1LowAlarmSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.3.30.0**sctConfig:****deviceAnalogInput:****a4Config: ANALOG INPUT 4 CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Analog Input 4 Name**MIB Name:** a1Name**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.1.0**2. Analog Input 4 High Alarm Set Point****MIB Name:** a1HighAlarmSetPoint**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.2.0**3. Analog Input 4 High Warn Set Point****MIB Name:** a1HighWarnSetPoint**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.3.0**4. Analog Input 4 Low Warn Set Point****MIB Name:** a1HighAlarmSetPoint**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.4.0**5. Analog Input 4 Low Alarm Set Point****MIB Name:** a1HighWarnSetPoint**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.5.0

6. Analog Input 4 Minimum Voltage**MIB Name:** a1MinVolt**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.6.0**7. Analog Input 4 Maximum Voltage****MIB Name:** a1MaxVolt**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.7.0**8. Analog Input 4 Minimum Display****MIB Name:** a1MinDisplay**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.8.0**9. Analog Input 4 Maximum Display****MIB Name:** a1MaxDisplay**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.9.0**10. Analog Input 4 Display Extension****MIB Name:** a1MinDisplay**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.10.0**11. Analog Input 4 Maximum Display****MIB Name:** a1MaxDisplay**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.11.0**12. Analog Input 4 Traps****MIB Name:** a1Traps**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.12.0**13. Analog Input 4 Category****MIB Name:** a1AlarmCategory**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.13.0**14. Analog Input 4 Trap Alarm Number****MIB Name:** a1AlarmNumber**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.14.0**15. Analog Input 4 Alarm Type****MIB Name:** a1AlarmType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.15.0**16. Analog Input 4 Normal Level Message****MIB Name:** a1NormalMessage**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.16.0**17. Analog Input 4 High Alarm Message****MIB Name:** a1HighAlarmMessage**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.17.0**18. Analog Input 4 High Warning Message****MIB Name:** a1HighWarnMessage**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.18.0**19. Analog Input 4 Low Warning Message****MIB Name:** a1LowWarnMessage**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.19.0

20. Analog Input 4 Low Alarm Message**MIB Name:** a1LowAlarmMessage**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.20.0**21. Analog Input 4 Normal Level Trap Type****MIB Name:** a1NormalTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.21.0**22. Analog Input 4 High Alarm Trap Type****MIB Name:** a1HighAlarmTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.22.0**23. Analog Input 4 High Warning Trap Type****MIB Name:** a1HighWarnTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.23.0**24. Analog Input 4 Low Warning Trap Type****MIB Name:** a1LowWarnTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.24.0**25. Analog Input 4 Low Alarm Trap Type****MIB Name:** a1LowAlarmTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.25.0**26. Analog Input 4 Normal Level Trap Severity****MIB Name:** a1NormalSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.26.0**27. Analog Input 4 High Alarm Trap Severity****MIB Name:** a1HighAlarmSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.27.0**28. Analog Input 4 High Warning Trap Severity****MIB Name:** a1HighWarnSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.28.0**29. Analog Input 4 Low Warning Trap Severity****MIB Name:** a1LowWarnSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.29.0**30. Analog Input 4 Low Alarm Trap Severity****MIB Name:** a1LowAlarmSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.7.4.30.0

sctConfig:**deviceDigitalInput:****d1Config: DIGITAL INPUT 1 CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Digital Input 1 Name

MIB Name: d1Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.1.1.0

2. Digital Input 1 Switch Type

MIB Name: d1SwitchType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.1.2.0

3. Digital Input 1 Delay Timer

MIB Name: d1DelayTimer

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.1.3.0

4. Digital Input 1 Traps

MIB Name: d1Traps

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.1.4.0

5. Digital Input 1 Alarm Category

MIB Name: d1AlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.1.5.0

6. Digital Input 1 Alarm Number

MIB Name: d1AlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.1.6.0

7. Digital Input 1 Alarm Type

MIB Name: d1AlarmType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.1.7.0

8. Digital Input 1 Active State Message

MIB Name: d1ActiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.1.8.0

9. Digital Input 1 Inactive State Message

MIB Name: d1InactiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.1.9.0

10. Digital Input 1 Active State Trap Type

MIB Name: d1ActiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.1.10.0

11. Digital Input 1 Inactive State Trap Type

MIB Name: d1InactiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.1.11.0

12. Digital Input 1 Active State Severity

MIB Name: d1ActiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.1.12.0

13. Digital Input 1 Inactive State Severity

MIB Name: d1InactiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.1.13.0

sctConfig:**deviceDigitalInput:****d2Config: DIGITAL INPUT 2 CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Digital Input 2 Name

MIB Name: d2Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.2.1.0

2. Digital Input 2 Switch Type

MIB Name: d2SwitchType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.2.2.0

3. Digital Input 2 Delay Timer

MIB Name: d2DelayTimer

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.2.3.0

4. Digital Input 2 Traps

MIB Name: d2Traps

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.2.4.0

5. Digital Input 2 Alarm Category

MIB Name: d2AlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.2.5.0

6. Digital Input 2 Alarm Number

MIB Name: d2AlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.2.6.0

7. Digital Input 2 Alarm Type

MIB Name: d2AlarmType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.2.7.0

8. Digital Input 2 Active State Message

MIB Name: d2ActiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.2.8.0

9. Digital Input 2 Inactive State Message

MIB Name: d2InactiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.2.9.0

10. Digital Input 2 Active State Trap Type

MIB Name: d2ActiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.2.10.0

11. Digital Input 2 Inactive State Trap Type

MIB Name: d2InactiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.2.11.0

12. Digital Input 2 Active State Severity

MIB Name: d2ActiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.2.12.0

13. Digital Input 2 Inactive State Severity

MIB Name: d2InactiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.2.13.0

sctConfig:**deviceDigitalInput:****d3Config: DIGITAL INPUT 3 CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Digital Input 3 Name

MIB Name: d3Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.3.1.0

2. Digital Input 3 Switch Type

MIB Name: d3SwitchType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.3.2.0

3. Digital Input 3 Delay Timer

MIB Name: d3DelayTimer

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.3.3.0

4. Digital Input 3 Traps

MIB Name: d3Traps

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.3.4.0

5. Digital Input 3 Alarm Category

MIB Name: d3AlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.3.5.0

6. Digital Input 3 Alarm Number

MIB Name: d3AlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.3.6.0

7. Digital Input 3 Alarm Type

MIB Name: d3AlarmType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.3.7.0

8. Digital Input 3 Active State Message

MIB Name: d3ActiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.3.8.0

9. Digital Input 3 Inactive State Message

MIB Name: d3InactiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.3.9.0

10. Digital Input 3 Active State Trap Type

MIB Name: d3ActiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.3.10.0

11. Digital Input 3 Inactive State Trap Type

MIB Name: d3InactiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.3.11.0

12. Digital Input 3 Active State Severity

MIB Name: d3ActiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.3.12.0

13. Digital Input 3 Inactive State Severity

MIB Name: d3InactiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.3.13.0

sctConfig:**deviceDigitalInput:****d4Config: DIGITAL INPUT 4 CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Digital Input 4 Name

MIB Name: d4Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.4.1.0

2. Digital Input 4 Switch Type

MIB Name: d4SwitchType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.4.2.0

3. Digital Input 4 Delay Timer

MIB Name: d4DelayTimer

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.4.3.0

4. Digital Input 4 Traps

MIB Name: d4Traps

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.4.4.0

5. Digital Input 4 Alarm Category

MIB Name: d4AlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.4.5.0

6. Digital Input 4 Alarm Number

MIB Name: d4AlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.4.6.0

7. Digital Input 4 Alarm Type

MIB Name: d4AlarmType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.4.7.0

8. Digital Input 4 Active State Message

MIB Name: d4ActiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.4.8.0

9. Digital Input 4 Inactive State Message

MIB Name: d4InactiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.4.9.0

10. Digital Input 4 Active State Trap Type

MIB Name: d4ActiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.4.10.0

11. Digital Input 4 Inactive State Trap Type

MIB Name: d4InactiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.4.11.0

12. Digital Input 4 Active State Severity

MIB Name: d4ActiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.4.12.0

13. Digital Input 4 Inactive State Severity

MIB Name: d4InactiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.4.13.0

sctConfig:**deviceDigitalInput:****d5Config: DIGITAL INPUT 5 CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Digital Input 5 Name

MIB Name: d5Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.5.1.0

2. Digital Input 5 Switch Type

MIB Name: d5SwitchType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.5.2.0

3. Digital Input 5 Delay Timer

MIB Name: d5DelayTimer

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.5.3.0

4. Digital Input 5 Traps

MIB Name: d5Traps

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.5.4.0

5. Digital Input 5 Alarm Category

MIB Name: d5AlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.5.5.0

6. Digital Input 5 Alarm Number

MIB Name: d5AlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.5.6.0

7. Digital Input 5 Alarm Type

MIB Name: d5AlarmType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.5.7.0

8. Digital Input 5 Active State Message

MIB Name: d5ActiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.5.8.0

9. Digital Input 5 Inactive State Message

MIB Name: d5InactiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.5.9.0

10. Digital Input 5 Active State Trap Type

MIB Name: d5ActiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.5.10.0

11. Digital Input 5 Inactive State Trap Type

MIB Name: d5InactiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.5.11.0

12. Digital Input 5 Active State Severity

MIB Name: d5ActiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.5.12.0

13. Digital Input 5 Inactive State Severity

MIB Name: d5InactiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.5.13.0

sctConfig:**deviceDigitalInput:****d6Config: DIGITAL INPUT 6 CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Digital Input 6 Name

MIB Name: d6Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.6.1.0

2. Digital Input 6 Switch Type

MIB Name: d6SwitchType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.6.2.0

3. Digital Input 6 Delay Timer

MIB Name: d6DelayTimer

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.6.3.0

4. Digital Input 6 Traps

MIB Name: d6Traps

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.6.4.0

5. Digital Input 6 Alarm Category

MIB Name: d6AlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.6.5.0

6. Digital Input 6 Alarm Number

MIB Name: d6AlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.6.6.0

7. Digital Input 6 Alarm Type

MIB Name: d6AlarmType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.6.7.0

8. Digital Input 6 Active State Message

MIB Name: d6ActiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.6.8.0

9. Digital Input 6 Inactive State Message

MIB Name: d6InactiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.6.9.0

10. Digital Input 6 Active State Trap Type

MIB Name: d6ActiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.6.10.0

11. Digital Input 6 Inactive State Trap Type

MIB Name: d6InactiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.6.11.0

12. Digital Input 6 Active State Severity

MIB Name: d6ActiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.6.12.0

13. Digital Input 6 Inactive State Severity

MIB Name: d6InactiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.6.13.0

sctConfig:**deviceDigitalInput:****d7Config: DIGITAL INPUT 7 CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Digital Input 7 Name

MIB Name: d7Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.7.1.0

2. Digital Input 7 Switch Type

MIB Name: d7SwitchType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.7.2.0

3. Digital Input 7 Delay Timer

MIB Name: d7DelayTimer

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.7.3.0

4. Digital Input 7 Traps

MIB Name: d7Traps

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.7.4.0

5. Digital Input 7 Alarm Category

MIB Name: d7AlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.7.5.0

6. Digital Input 7 Alarm Number

MIB Name: d7AlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.7.6.0

7. Digital Input 7 Alarm Type

MIB Name: d7AlarmType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.7.7.0

8. Digital Input 7 Active State Message

MIB Name: d7ActiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.7.8.0

9. Digital Input 7 Inactive State Message

MIB Name: d7InactiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.7.9.0

10. Digital Input 7 Active State Trap Type

MIB Name: d7ActiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.7.10.0

11. Digital Input 7 Inactive State Trap Type

MIB Name: d7InactiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.7.11.0

12. Digital Input 7 Active State Severity

MIB Name: d7ActiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.7.12.0

13. Digital Input 7 Inactive State Severity

MIB Name: d7InactiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.7.13.0

sctConfig:**deviceDigitalInput:****d8Config: DIGITAL INPUT 8 CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Digital Input 8 Name

MIB Name: d8Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.8.1.0

2. Digital Input 8 Switch Type

MIB Name: d8SwitchType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.8.2.0

3. Digital Input 8 Delay Timer

MIB Name: d8DelayTimer

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.8.3.0

4. Digital Input 8 Traps

MIB Name: d8Traps

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.8.4.0

5. Digital Input 8 Alarm Category

MIB Name: d8AlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.8.5.0

6. Digital Input 8 Alarm Number

MIB Name: d8AlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.8.6.0

7. Digital Input 8 Alarm Type

MIB Name: d8AlarmType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.8.7.0

8. Digital Input 8 Active State Message

MIB Name: d8ActiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.8.8.0

9. Digital Input 8 Inactive State Message

MIB Name: d8InactiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.8.9.0

10. Digital Input 8 Active State Trap Type

MIB Name: d8ActiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.8.10.0

11. Digital Input 8 Inactive State Trap Type

MIB Name: d8InactiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.8.11.0

12. Digital Input 8 Active State Severity

MIB Name: d8ActiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.8.12.0

13. Digital Input 8 Inactive State Severity

MIB Name: d8InactiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.8.13.0

sctConfig:**deviceDigitalInput:****d9Config: DIGITAL INPUT 9 CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Digital Input 9 Name

MIB Name: d9Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.9.1.0

2. Digital Input 9 Switch Type

MIB Name: d9SwitchType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.9.2.0

3. Digital Input 9 Delay Timer

MIB Name: d9DelayTimer

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.9.3.0

4. Digital Input 9 Traps

MIB Name: d9Traps

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.9.4.0

5. Digital Input 9 Alarm Category

MIB Name: d9AlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.9.5.0

6. Digital Input 9 Alarm Number

MIB Name: d9AlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.9.6.0

7. Digital Input 9 Alarm Type

MIB Name: d9AlarmType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.9.7.0

8. Digital Input 9 Active State Message

MIB Name: d9ActiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.9.8.0

9. Digital Input 9 Inactive State Message

MIB Name: d9InactiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.9.9.0

10. Digital Input 9 Active State Trap Type

MIB Name: d9ActiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.9.10.0

11. Digital Input 9 Inactive State Trap Type

MIB Name: d9InactiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.9.11.0

12. Digital Input 9 Active State Severity

MIB Name: d9ActiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.9.12.0

13. Digital Input 9 Inactive State Severity

MIB Name: d9InactiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.9.13.0

sctConfig:**deviceDigitalInput:****d10Config: DIGITAL INPUT 10 CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Digital Input 10 Name

MIB Name: d10Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.10.1.0

2. Digital Input 10 Switch Type

MIB Name: d10SwitchType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.10.2.0

3. Digital Input 10 Delay Timer

MIB Name: d10DelayTimer

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.10.3.0

4. Digital Input 10 Traps

MIB Name: d10Traps

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.10.4.0

5. Digital Input 10 Alarm Category

MIB Name: d10AlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.10.5.0

6. Digital Input 10 Alarm Number

MIB Name: d10AlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.10.6.0

7. Digital Input 10 Alarm Type

MIB Name: d10AlarmType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.10.7.0

8. Digital Input 10 Active State Message

MIB Name: d10ActiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.10.8.0

9. Digital Input 10 Inactive State Message

MIB Name: d10InactiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.10.9.0

10. Digital Input 10 Active State Trap Type

MIB Name: d10ActiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.10.10.0

11. Digital Input 10 Inactive State Trap Type

MIB Name: d10InactiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.10.11.0

12. Digital Input 10 Active State Severity

MIB Name: d10ActiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.10.12.0

13. Digital Input 10 Inactive State Severity

MIB Name: d10InactiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.10.13.0

sctConfig:**deviceDigitalInput:****d11Config: DIGITAL INPUT 11 CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Digital Input 11 Name

MIB Name: d11Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.11.1.0

2. Digital Input 11 Switch Type

MIB Name: d11SwitchType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.11.2.0

3. Digital Input 11 Delay Timer

MIB Name: d11DelayTimer

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.11.3.0

4. Digital Input 11 Traps

MIB Name: d11Traps

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.11.4.0

5. Digital Input 11 Alarm Category

MIB Name: d11AlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.11.5.0

6. Digital Input 11 Alarm Number

MIB Name: d11AlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.11.6.0

7. Digital Input 11 Alarm Type

MIB Name: d11AlarmType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.11.7.0

8. Digital Input 11 Active State Message

MIB Name: d11ActiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.11.8.0

9. Digital Input 11 Inactive State Message

MIB Name: d11InactiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.11.9.0

10. Digital Input 11 Active State Trap Type

MIB Name: d11ActiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.11.10.0

11. Digital Input 11 Inactive State Trap Type

MIB Name: d11InactiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.11.11.0

12. Digital Input 11 Active State Severity

MIB Name: d11ActiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.11.12.0

13. Digital Input 11 Inactive State Severity

MIB Name: d11InactiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.11.13.0

sctConfig:**deviceDigitalInput:****d12Config: DIGITAL INPUT 12 CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Digital Input 12 Name

MIB Name: d12Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.12.1.0

2. Digital Input 12 Switch Type

MIB Name: d12SwitchType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.12.2.0

3. Digital Input 12 Delay Timer

MIB Name: d12DelayTimer

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.12.3.0

4. Digital Input 12 Traps

MIB Name: d12Traps

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.12.4.0

5. Digital Input 12 Alarm Category

MIB Name: d12AlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.12.5.0

6. Digital Input 12 Alarm Number

MIB Name: d12AlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.12.6.0

7. Digital Input 12 Alarm Type

MIB Name: d12AlarmType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.12.7.0

8. Digital Input 12 Active State Message

MIB Name: d12ActiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.12.8.0

9. Digital Input 12 Inactive State Message

MIB Name: d12InactiveMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.12.9.0

10. Digital Input 12 Active State Trap Type

MIB Name: d12ActiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.12.10.0

11. Digital Input 12 Inactive State Trap Type

MIB Name: d12InactiveTrapType

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.12.11.0

12. Digital Input 12 Active State Severity

MIB Name: d12ActiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.12.12.0

13. Digital Input 12 Inactive State Severity

MIB Name: d12InactiveSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.1.8.12.13.0

sctConfig:

deviceRelayOutput:

r1Config: RELAY 1 CONFIGURATION OBJECTS

The managed objects described in this section are READ-WRITE.

1. Relay 1 Name

MIB Name: relay1Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.9.1.1.0

2. Relay 1 On Alias

MIB Name: relay1OnAlias

OID Number: .1.3.6.1.4.1.27404.3.3.1.9.1.2.0

3. Relay 1 Off Alias

MIB Name: relay1OffAlias

OID Number: .1.3.6.1.4.1.27404.3.3.1.9.1.3.0

4. Relay 1 Auto Off Timer

MIB Name: relay1AutoOffTimer

OID Number: .1.3.6.1.4.1.27404.3.3.1.9.1.4.0

sctConfig:

deviceRelayOutput:

r2Config: RELAY 2 CONFIGURATION OBJECTS

The managed objects described in this section are READ-WRITE.

1. Relay 2 Name

MIB Name: relay2Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.9.2.1.0

2. Relay 2 On Alias

MIB Name: relay2OnAlias

OID Number: .1.3.6.1.4.1.27404.3.3.1.9.2.2.0

3. Relay 2 Off Alias

MIB Name: relay2OffAlias

OID Number: .1.3.6.1.4.1.27404.3.3.1.9.2.3.0

4. Relay 2 Auto Off Timer

MIB Name: relay2AutoOffTimer

OID Number: .1.3.6.1.4.1.27404.3.3.1.9.2.4.0

sctConfig:**deviceTemperature:****tempConfig:****DEVICE TEMPERATURE CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Temperature Sensor Name

MIB Name: tempName

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.1.0

2. Temperature Sensor High Alarm Set Point

MIB Name: tempHighAlarmSetPoint

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.2.0

3. Temperature Sensor High Warn Set Point

MIB Name: tempHighWarnSetPoint

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.3.0

4. Temperature Sensor Low Warn Set Point

MIB Name: tempHighAlarmSetPoint

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.4.0

5. Temperature Sensor Low Alarm Set Point

MIB Name: tempHighWarnSetPoint

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.5.0

6. Temperature Sensor Traps

MIB Name: tempTraps

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.6.0

7. Temperature Sensor Alarm Category

MIB Name: tempAlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.7.0

8. Temperature Sensor Alarm Number

MIB Name: tempAlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.8.0

9. Temperature Sensor Alarm Type

MIB Name: tempAlarmType

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.9.0

10. Temperature Sensor Normal Level Message

MIB Name: tempNormalMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.10.0

11. Temperature Sensor High Alarm Message

MIB Name: tempHighAlarmMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.11.0

12. Temperature Sensor High Warning Message

MIB Name: tempHighWarnMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.12.0

13. Temperature Sensor Low Warning Message

MIB Name: tempLowWarnMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.13.0

14. Temperature Sensor Low Alarm Message**MIB Name:** tempLowAlarmMessage**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.14.0**15. Temperature Sensor Normal Level Trap Type****MIB Name:** tempNormalTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.15.0**16. Temperature Sensor High Alarm Trap Type****MIB Name:** tempHighAlarmTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.16.0**17. Temperature Sensor High Warning Trap Type****MIB Name:** tempHighWarnTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.17.0**18. Temperature Sensor Low Warning Trap Type****MIB Name:** tempLowWarnTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.18.0**19. Temperature Sensor Low Alarm Trap Type****MIB Name:** tempLowAlarmTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.19.0**20. Temperature Sensor Normal Level Trap Severity****MIB Name:** tempNormalSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.20.0**21. Temperature Sensor High Alarm Trap Severity****MIB Name:** tempHighAlarmSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.21.0**22. Temperature Sensor High Warning Trap Severity****MIB Name:** tempHighWarnSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.22.0**23. Temperature Sensor Low Warning Trap Severity****MIB Name:** tempLowWarnSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.23.0**24. Temperature Sensor Low Alarm Trap Severity****MIB Name:** tempLowAlarmSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.24.0

sctConfig:**deviceBatteryMonitor:****batteryConfig: BATTERY MONITOR CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Name

MIB Name: batteryName

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.1.0

2. Battery Monitor High Alarm Set Point

MIB Name: batteryHighAlarmSetPoint

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.2.0

3. Battery Monitor High Warn Set Point

MIB Name: batteryHighWarnSetPoint

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.3.0

4. Battery Monitor Low Warn Set Point

MIB Name: batteryHighAlarmSetPoint

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.4.0

5. Battery Monitor Low Alarm Set Point

MIB Name: batteryHighWarnSetPoint

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.5.0

6. Battery Monitor Traps

MIB Name: batteryTraps

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.6.0

7. Battery Monitor Alarm Category

MIB Name: batteryAlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.7.0

8. Battery Monitor Alarm Number

MIB Name: batteryAlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.8.0

9. Battery Monitor Alarm Type

MIB Name: batteryAlarmType

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.9.0

10. Battery Monitor Normal Level Message

MIB Name: batteryNormalMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.10.0

11. Battery Monitor High Alarm Message

MIB Name: batteryHighAlarmMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.11.0

12. Battery Monitor High Warning Message

MIB Name: batteryHighWarnMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.12.0

13. Battery Monitor Low Warning Message

MIB Name: batteryLowWarnMessage

OID Number: .1.3.6.1.4.1.27404.3.3.1.10.1.13.0

14. Battery Monitor Low Alarm Message**MIB Name:** batteryLowAlarmMessage**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.14.0**15. Battery Monitor Normal Level Trap Type****MIB Name:** batteryNormalTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.15.0**16. Battery Monitor High Alarm Trap Type****MIB Name:** batteryHighAlarmTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.16.0**17. Battery Monitor High Warning Trap Type****MIB Name:** batteryHighWarnTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.17.0**18. Battery Monitor Low Warning Trap Type****MIB Name:** batteryLowWarnTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.18.0**19. Battery Monitor Low Alarm Trap Type****MIB Name:** batteryLowAlarmTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.19.0**20. Battery Monitor Normal Level Trap Severity****MIB Name:** batteryNormalSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.20.0**21. Battery Monitor High Alarm Trap Severity****MIB Name:** batteryHighAlarmSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.21.0**22. Battery Monitor High Warning Trap Severity****MIB Name:** batteryHighWarnSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.22.0**23. Battery Monitor Low Warning Trap Severity****MIB Name:** batteryLowWarnSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.23.0**24. Battery Monitor Low Alarm Trap Severity****MIB Name:** batteryLowAlarmSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.10.1.24.0

sctConfig:**deviceWiegand:****wiegand1Config: WIEGAND 1 INPUT CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Name

MIB Name: wiegand1Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.12.1.1.0

2. Battery Monitor High Alarm Set Point

MIB Name: wiegand1Relays

OID Number: .1.3.6.1.4.1.27404.3.3.1.12.1.2.0

sctConfig:**deviceWiegand:****wiegand2Config: WIEGAND 2 INPUT CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Name

MIB Name: wiegand2Name

OID Number: .1.3.6.1.4.1.27404.3.3.1.12.2.1.0

2. Battery Monitor High Alarm Set Point

MIB Name: wiegand2Relays

OID Number: .1.3.6.1.4.1.27404.3.3.1.12.2.2.0

sctConfig:**deviceWiegand:****wiegandGlobalConfig: WIEGAND INPUT GLOBAL CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Disabled Card Traps

MIB Name: wiegandDisCardTraps

OID Number: .1.3.6.1.4.1.27404.3.3.1.12.3.1.0

2. Enabled Card Traps

MIB Name: wiegandEnCardTraps

OID Number: .1.3.6.1.4.1.27404.3.3.1.12.3.2.0

3. Disabled Card Alarm Category

MIB Name: wiegandDisAlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.12.3.3.0

4. Enabled Card Alarm Category

MIB Name: wiegandEnAlarmCategory

OID Number: .1.3.6.1.4.1.27404.3.3.1.12.3.4.0

5. Disabled Card Alarm Number

MIB Name: wiegandDisAlarmNumber

OID Number: .1.3.6.1.4.1.27404.3.3.1.12.3.5.0

6. Enabled Card Alarm Number**MIB Name:** wiegandEnAlarmNumber**OID Number:** .1.3.6.1.4.1.27404.3.3.1.12.3.6.0**7. Disabled Card Alarm Type****MIB Name:** wiegandDisAlarmType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.12.3.7.0**8. Enabled Card Alarm Type****MIB Name:** wiegandEnAlarmType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.12.3.8.0**9. Disabled Card Trap Type****MIB Name:** wiegandDisTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.12.3.9.0**10. Enabled Card Trap Type****MIB Name:** wiegandEnTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.12.3.10.0**sctConfig:****deviceFirmware:****updateConfig: FIRMWARE UPDATE CONFIGURATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Firmware Update Server Network IP Address**MIB Name:** sctUpdateAddress**OID Number:** .1.3.6.1.4.1.27404.3.3.1.13.1.1.0**2. Firmware Update Server Network Port****MIB Name:** sctUpdatePort**OID Number:** .1.3.6.1.4.1.27404.3.3.1.13.1.2.0**3. Firmware Update Server Username****MIB Name:** sctUpdateUsername**OID Number:** .1.3.6.1.4.1.27404.3.3.1.13.1.3.0**4. Firmware Update Server Password****MIB Name:** sctUpdatePassword**OID Number:** .1.3.6.1.4.1.27404.3.3.1.13.1.4.0**5. Firmware Update Server Mode****MIB Name:** sctUpdateServerMode**OID Number:** .1.3.6.1.4.1.27404.3.3.1.13.1.5.0**6. Firmware Update Path****MIB Name:** sctUpdatePath**OID Number:** .1.3.6.1.4.1.27404.3.3.1.13.1.6.0**7. Firmware Update Timer****MIB Name:** sctUpdateTimer**OID Number:** .1.3.6.1.4.1.27404.3.3.1.13.1.7.0

8. Firmware Update Trigger**MIB Name:** sctUpdateTrigger**OID Number:** .1.3.6.1.4.1.27404.3.3.1.13.1.8.0**sctConfig:****deviceFirmware:****updateConfirmationTrapConfig: FIRMWARE UPDATE CONFIRMATION OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Firmware Update Confirmation Name**MIB Name:** sctUpdateConfirmationName**OID Number:** .1.3.6.1.4.1.27404.3.3.1.13.1.1.0**2. Firmware Update Confirmation Traps****MIB Name:** sctUpdateConfirmationTraps**OID Number:** .1.3.6.1.4.1.27404.3.3.1.13.1.2.0**3. Firmware Update Confirmation Category****MIB Name:** sctUpdateConfirmationCategory**OID Number:** .1.3.6.1.4.1.27404.3.3.1.13.1.3.0**4. Firmware Update Confirmation Number****MIB Name:** sctUpdateConfirmationNumber**OID Number:** .1.3.6.1.4.1.27404.3.3.1.13.1.4.0**5. Firmware Update Confirmation Alarm Type****MIB Name:** sctUpdateConfirmationAlarmType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.13.1.5.0**6. Firmware Update Confirmation Message****MIB Name:** sctUpdateConfirmationMessage**OID Number:** .1.3.6.1.4.1.27404.3.3.1.13.1.6.0**7. Firmware Update Confirmation Trap Type****MIB Name:** sctUpdateConfirmationTrapType**OID Number:** .1.3.6.1.4.1.27404.3.3.1.13.1.7.0**8. Firmware Update Confirmation Severity****MIB Name:** sctUpdateConfirmationSeverity**OID Number:** .1.3.6.1.4.1.27404.3.3.1.13.2.8.0**sctConfig:****deviceWrite:****writeChanges: WRITE CHANGES OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Configuration Change Commit**MIB Name:** writeCommit**OID Number:** .1.3.6.1.4.1.27404.3.3.1.99.1.1.0

sctInputs:**sctAnalogInputs:****a1: ANALOG INPUT 1 STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Analog Input 1 Value

MIB Name: a1Value

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.1.1.0

2. Analog Input 1 Normal ACK

MIB Name: a1NormalACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.1.2.0

3. Analog Input 1 High Alarm Setpoint ACK

MIB Name: a1HighAlarmSetACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.1.3.0

4. Analog Input 1 High Warning Setpoint ACK

MIB Name: a1HighWarnSetACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.1.4.0

5. Analog Input 1 Low Warning Setpoint ACK

MIB Name: a1LowWarnSetACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.1.5.0

6. Analog Input 1 Low Alarm Setpoint ACK

MIB Name: a1LowAlarmSetACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.1.6.0

7. Analog Input 1 Normal Level Last Event Time

MIB Name: a1NormalLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.1.7.0

8. Analog Input 1 High Alarm Level Last Event Time

MIB Name: a1HighAlarmLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.1.8.0

9. Analog Input 1 High Warning Level Last Event Time

MIB Name: a1HighWarnLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.1.9.0

10. Analog Input 1 Low Warning Level Last Event Time

MIB Name: a1LowWarnLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.1.10.0

11. Analog Input 1 Low Alarm Level Last Event Time

MIB Name: a1LowAlarmlastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.1.11.0

sctInputs:**sctAnalogInputs:****a2: ANALOG INPUT 2 STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Analog Input 2 Value

MIB Name: a2Value

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.2.1.0

2. Analog Input 2 Normal ACK

MIB Name: a2NormalACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.2.2.0

3. Analog Input 2 High Alarm Setpoint ACK

MIB Name: a2HighAlarmSetACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.2.3.0

4. Analog Input 2 High Warning Setpoint ACK

MIB Name: a2HighWarnSetACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.2.4.0

5. Analog Input 2 Low Warning Setpoint ACK

MIB Name: a2LowWarnSetACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.2.5.0

6. Analog Input 2 Low Alarm Setpoint ACK

MIB Name: a2LowAlarmSetACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.2.6.0

7. Analog Input 2 Normal Level Last Event Time

MIB Name: a2NormalLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.2.7.0

8. Analog Input 2 High Alarm Level Last Event Time

MIB Name: a2HighAlarmLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.2.8.0

9. Analog Input 2 High Warning Level Last Event Time

MIB Name: a2HighWarnLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.2.9.0

10. Analog Input 2 Low Warning Level Last Event Time

MIB Name: a2LowWarnLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.2.10.0

11. Analog Input 2 Low Alarm Level Last Event Time

MIB Name: a2LowAlarmlastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.2.11.0

sctInputs:**sctAnalogInputs:****a3: ANALOG INPUT 3 STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Analog Input 3 Value

MIB Name: a3Value

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.3.1.0

2. Analog Input 3 Normal ACK

MIB Name: a3NormalACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.3.2.0

3. Analog Input 3 High Alarm Setpoint ACK

MIB Name: a3HighAlarmSetACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.3.3.0

4. Analog Input 3 High Warning Setpoint ACK

MIB Name: a3HighWarnSetACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.3.4.0

5. Analog Input 3 Low Warning Setpoint ACK

MIB Name: a3LowWarnSetACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.3.5.0

6. Analog Input 3 Low Alarm Setpoint ACK

MIB Name: a3LowAlarmSetACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.3.6.0

7. Analog Input 3 Normal Level Last Event Time

MIB Name: a3NormalLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.3.7.0

8. Analog Input 3 High Alarm Level Last Event Time

MIB Name: a3HighAlarmLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.3.8.0

9. Analog Input 3 High Warning Level Last Event Time

MIB Name: a3HighWarnLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.3.9.0

10. Analog Input 3 Low Warning Level Last Event Time

MIB Name: a3LowWarnLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.3.10.0

11. Analog Input 3 Low Alarm Level Last Event Time

MIB Name: a3LowAlarmlastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.3.11.0

sctInputs:**sctAnalogInputs:****a4: ANALOG INPUT 4 STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Analog Input 4 Value

MIB Name: a4Value

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.4.1.0

2. Analog Input 4 Normal ACK

MIB Name: a4NormalACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.4.2.0

3. Analog Input 4 High Alarm Setpoint ACK

MIB Name: a4HighAlarmSetACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.4.3.0

4. Analog Input 4 High Warning Setpoint ACK

MIB Name: a4HighWarnSetACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.4.4.0

5. Analog Input 4 Low Warning Setpoint ACK

MIB Name: a4LowWarnSetACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.4.5.0

6. Analog Input 4 Low Alarm Setpoint ACK

MIB Name: a4LowAlarmSetACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.4.6.0

7. Analog Input 4 Normal Level Last Event Time

MIB Name: a4NormalLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.4.7.0

8. Analog Input 4 High Alarm Level Last Event Time

MIB Name: a4HighAlarmLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.4.8.0

9. Analog Input 4 High Warning Level Last Event Time

MIB Name: a4HighWarnLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.4.9.0

10. Analog Input 4 Low Warning Level Last Event Time

MIB Name: a4LowWarnLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.4.10.0

11. Analog Input 4 Low Alarm Level Last Event Time

MIB Name: a4LowAlarmlastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.4.11.0

sctInputs:**sctDigitalInputs:****d1: DIGITAL INPUT 1 STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Digital Input 1 Status

MIB Name: d1Status

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.1.1.0

2. Digital Input 1 Active ACK

MIB Name: d1ActiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.1.2.0

3. Digital Input 1 Inactive ACK

MIB Name: d1InactiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.1.3.0

4. Digital Input 1 Active Last Event Time

MIB Name: d1ActiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.1.4.0

5. Digital Input 1 Inactive Last Event Time

MIB Name: d1InactiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.1.5.0

sctInputs:**sctDigitalInputs:****d2: DIGITAL INPUT 2 STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Digital Input 2 Status

MIB Name: d2Status

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.2.1.0

2. Digital Input 2 Active ACK

MIB Name: d2ActiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.2.2.0

3. Digital Input 2 Inactive ACK

MIB Name: d2InactiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.2.3.0

4. Digital Input 2 Active Last Event Time

MIB Name: d2ActiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.2.4.0

5. Digital Input 2 Inactive Last Event Time

MIB Name: d2InactiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.2.5.0

sctInputs:**sctDigitalInputs:****d3: DIGITAL INPUT 3 STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Digital Input 3 Status

MIB Name: d3Status

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.3.1.0

2. Digital Input 3 Active ACK

MIB Name: d3ActiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.3.2.0

3. Digital Input 3 Inactive ACK

MIB Name: d3InactiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.3.3.0

4. Digital Input 3 Active Last Event Time

MIB Name: d3ActiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.3.4.0

5. Digital Input 3 Inactive Last Event Time

MIB Name: d3InactiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.3.5.0

sctInputs:**sctDigitalInputs:****d4: DIGITAL INPUT 4 STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Digital Input 4 Status

MIB Name: d4Status

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.4.1.0

2. Digital Input 4 Active ACK

MIB Name: d4ActiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.4.2.0

3. Digital Input 4 Inactive ACK

MIB Name: d4InactiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.4.3.0

4. Digital Input 4 Active Last Event Time

MIB Name: d4ActiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.4.4.0

5. Digital Input 4 Inactive Last Event Time

MIB Name: d4InactiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.4.5.0

sctInputs:**sctDigitalInputs:****d5: DIGITAL INPUT 5 STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Digital Input 5 Status

MIB Name: d5Status

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.5.1.0

2. Digital Input 5 Active ACK

MIB Name: d5ActiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.5.2.0

3. Digital Input 5 Inactive ACK

MIB Name: d5InactiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.5.3.0

4. Digital Input 5 Active Last Event Time

MIB Name: d5ActiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.5.4.0

5. Digital Input 5 Inactive Last Event Time

MIB Name: d5InactiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.5.5.0

sctInputs:**sctDigitalInputs:****d6: DIGITAL INPUT 6 STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Digital Input 6 Status

MIB Name: d6Status

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.6.1.0

2. Digital Input 6 Active ACK

MIB Name: d6ActiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.6.2.0

3. Digital Input 6 Inactive ACK

MIB Name: d6InactiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.6.3.0

4. Digital Input 6 Active Last Event Time

MIB Name: d6ActiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.6.4.0

5. Digital Input 6 Inactive Last Event Time

MIB Name: d6InactiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.6.5.0

sctInputs:**sctDigitalInputs:****d7: DIGITAL INPUT 7 STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Digital Input 7 Status

MIB Name: d7Status

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.7.1.0

2. Digital Input 7 Active ACK

MIB Name: d7ActiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.7.2.0

3. Digital Input 7 Inactive ACK

MIB Name: d7InactiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.7.3.0

4. Digital Input 7 Active Last Event Time

MIB Name: d7ActiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.7.4.0

5. Digital Input 7 Inactive Last Event Time

MIB Name: d7InactiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.7.5.0

sctInputs:**sctDigitalInputs:****d8: DIGITAL INPUT 8 STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Digital Input 8 Status

MIB Name: d8Status

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.8.1.0

2. Digital Input 8 Active ACK

MIB Name: d8ActiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.8.2.0

3. Digital Input 8 Inactive ACK

MIB Name: d8InactiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.8.3.0

4. Digital Input 8 Active Last Event Time

MIB Name: d8ActiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.8.4.0

5. Digital Input 8 Inactive Last Event Time

MIB Name: d8InactiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.8.5.0

sctInputs:**sctDigitalInputs:****d9: DIGITAL INPUT 9 STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Digital Input 9 Status

MIB Name: d9Status

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.9.1.0

2. Digital Input 9 Active ACK

MIB Name: d9ActiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.9.2.0

3. Digital Input 9 Inactive ACK

MIB Name: d9InactiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.9.3.0

4. Digital Input 9 Active Last Event Time

MIB Name: d9ActiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.9.4.0

5. Digital Input 9 Inactive Last Event Time

MIB Name: d9InactiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.9.5.0

sctInputs:**sctDigitalInputs:****d10: DIGITAL INPUT 10 STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Digital Input 10 Status

MIB Name: d10Status

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.10.1.0

2. Digital Input 10 Active ACK

MIB Name: d10ActiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.10.2.0

3. Digital Input 10 Inactive ACK

MIB Name: d10InactiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.10.3.0

4. Digital Input 10 Active Last Event Time

MIB Name: d10ActiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.10.4.0

5. Digital Input 10 Inactive Last Event Time

MIB Name: d10InactiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.10.5.0

sctInputs:**sctDigitalInputs:****d11: DIGITAL INPUT 11 STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Digital Input 11 Status

MIB Name: d11Status

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.11.1.0

2. Digital Input 11 Active ACK

MIB Name: d11ActiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.11.2.0

3. Digital Input 11 Inactive ACK

MIB Name: d11InactiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.11.3.0

4. Digital Input 11 Active Last Event Time

MIB Name: d11ActiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.11.4.0

5. Digital Input 11 Inactive Last Event Time

MIB Name: d11InactiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.11.5.0

sctInputs:**sctDigitalInputs:****d12: DIGITAL INPUT 12 STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Digital Input 12 Status

MIB Name: d12Status

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.12.1.0

2. Digital Input 12 Active ACK

MIB Name: d12ActiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.12.2.0

3. Digital Input 12 Inactive ACK

MIB Name: d12InactiveACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.12.3.0

4. Digital Input 12 Active Last Event Time

MIB Name: d12ActiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.12.4.0

5. Digital Input 12 Inactive Last Event Time

MIB Name: d12InactiveLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.12.5.0

sctInputs:**sctDigitalCounts: DIGITAL INPUT COUNTS OBJECTS**

The managed objects described in this section are READ-WRITE.

1. Digital Input 1 Count

MIB Name: d1Count

OID Number: .1.3.6.1.4.1.27404.3.3.3.1.0

2. Digital Input 2 Count

MIB Name: d2Count

OID Number: .1.3.6.1.4.1.27404.3.3.3.2.0

3. Digital Input 3 Count

MIB Name: d3Count

OID Number: .1.3.6.1.4.1.27404.3.3.3.3.0

4. Digital Input 4 Count

MIB Name: d4Count

OID Number: .1.3.6.1.4.1.27404.3.3.3.4.0

5. Digital Input 5 Count

MIB Name: d5Count

OID Number: .1.3.6.1.4.1.27404.3.3.3.5.0

6. Digital Input 6 Count

MIB Name: d6Count

OID Number: .1.3.6.1.4.1.27404.3.3.3.6.0

7. Digital Input 7 Count

MIB Name: d7Count

OID Number: .1.3.6.1.4.1.27404.3.3.3.7.0

8. Digital Input 8 Count

MIB Name: d8Count

OID Number: .1.3.6.1.4.1.27404.3.3.3.8.0

9. Digital Input 9 Count

MIB Name: d9Count

OID Number: .1.3.6.1.4.1.27404.3.3.3.9.0

10. Digital Input 10 Count

MIB Name: d10Count

OID Number: .1.3.6.1.4.1.27404.3.3.3.10.0

11. Digital Input 11 Count

MIB Name: d11Count

OID Number: .1.3.6.1.4.1.27404.3.3.3.11.0

12. Digital Input 12 Count

MIB Name: d12Count

OID Number: .1.3.6.1.4.1.27404.3.3.3.12.0

sctInputs:**sctTemperature: DEVICE TEMPERATURE STATUS OBJECTS**

The managed objects described in this section are both READ-ONLY and READ-WRITE.

1. Temperature Value

MIB Name: tempValue

OID Number: .1.3.6.1.4.1.27404.3.3.3.4.1.0

2. Temperature Normal ACK

MIB Name: tempNormalACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.4.2.0

3. Temperature High Alarm ACK

MIB Name: tempHighAlarmACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.4.3.0

4. Temperature High Warning ACK

MIB Name: tempHighWarnACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.4.4.0

5. Temperature Low Warning ACK

MIB Name: tempLowWarnACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.4.5.0

6. Temperature Low Alarm ACK

MIB Name: tempLowAlarmACK

OID Number: .1.3.6.1.4.1.27404.3.3.3.4.6.0

7. Temperature Normal Last Event Time

MIB Name: tempNormalLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.4.7.0

8. Temperature High Alarm Last Event Time

MIB Name: tempHighAlarmLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.4.8.0

9. Temperature High Warning Last Event Time

MIB Name: tempHighWarnLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.4.9.0

10. Temperature Low Warning Last Event Time

MIB Name: tempLowWarnLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.4.10.0

11. Temperature Low Alarm Last Event Time

MIB Name: tempLowAlarmLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.3.4.11.0

sctOutputs:**sctRelays: RELAY 1 OBJECTS**

The managed objects described in this section are both READ-WRITE.

1. Relay 1 Status

MIB Name: r1Status

OID Number: .1.3.6.1.4.1.27404.3.3.4.1.1.1.0

sctRelays: RELAY 2 OBJECTS

The managed objects described in this section are both READ-WRITE.

1. Relay 2 Status

MIB Name: r2Status

OID Number: .1.3.6.1.4.1.27404.3.3.4.1.2.1.0

sctSystem:**sctHealthStatus:****coldstart: COLD START OBJECTS**

The managed objects described in this section are both READ-WRITE.

1. Cold Start ACK

MIB Name: coldstartACK

OID Number: .1.3.6.1.4.1.27404.3.3.5.1.1.1.0

2. Cold Start Last Event Time

MIB Name: coldstartLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.5.1.1.2.0

sctSystem:**sctHealthStatus:****heartbeat: HEARTBEAT OBJECTS**

The managed objects described in this section are both READ-WRITE.

1. Heartbeat ACK

MIB Name: heartbeatACK

OID Number: .1.3.6.1.4.1.27404.3.3.5.1.2.1.0

2. Heartbeat Last Event Time

MIB Name: heartbeatLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.5.1.2.2.0

sctPowerStatus:**linepower: LINE POWER OBJECTS**

The managed objects described in this section are both READ-WRITE.

1. Line Power Status

MIB Name: linePowerValue

OID Number: .1.3.6.1.4.1.27404.3.3.5.2.1.1.0

sctSystem:**sctPowerStatus:****batterypower: BATTERY POWER OBJECTS**

The managed objects described in this section are both READ-WRITE.

1. Battery Value

MIB Name: batteryValue

OID Number: .1.3.6.1.4.1.27404.3.3.5.2.2.1.0

2. Battery Normal ACK

MIB Name: batteryNormalACK

OID Number: .1.3.6.1.4.1.27404.3.3.5.2.2.2.0

3. Battery High Alarm ACK

MIB Name: batteryHighAlarmACK

OID Number: .1.3.6.1.4.1.27404.3.3.5.2.2.3.0

4. Battery High Warning ACK

MIB Name: batteryHighWarnACK

OID Number: .1.3.6.1.4.1.27404.3.3.5.2.2.4.0

5. Battery Low Warning ACK

MIB Name: batteryLowWarnACK

OID Number: .1.3.6.1.4.1.27404.3.3.5.2.2.5.0

6. Battery Low Alarm ACK

MIB Name: batteryLowAlarmACK

OID Number: .1.3.6.1.4.1.27404.3.3.5.2.2.6.0

7. Battery Normal Last Event Time

MIB Name: batteryNormalLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.5.2.2.7.0

8. Battery High Alarm Last Event Time

MIB Name: batteryHighAlarmLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.5.2.2.8.0

9. Battery High Warning Last Event Time

MIB Name: batteryHighWarnLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.5.2.2.9.0

10. Battery Low Warning Last Event Time

MIB Name: batteryLowWarnLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.5.2.2.10.0

11. Battery Low Alarm Last Event Time

MIB Name: batteryLowAlarmLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.5.2.2.11.0

sctSystem:**sctFirmware:****firmwareUpdate: FIRMWARE UPDATE OBJECTS**

The managed objects described in this section are both READ-WRITE.

1. Firmware Update ACK

MIB Name: firmwareupdateACK

OID Number: .1.3.6.1.4.1.27404.3.3.5.3.1.1.0

2. Firmware Update Last Event Time

MIB Name: firmwareupdateLastEventTime

OID Number: .1.3.6.1.4.1.27404.3.3.5.3.1.2.0

sctWiegand:**wiegandStatus:****wiegand1: WIEGAND CARD READER INPUT 1 OBJECTS**

The managed objects described in this section are both READ-WRITE.

1. Wiegand 1 Disabled Card ACK

MIB Name: wiegand1DisabledACK

OID Number: .1.3.6.1.4.1.27404.3.3.6.1.1.1.0

2. Wiegand 1 Enabled Card ACK

MIB Name: wiegand1EnabledACK

OID Number: .1.3.6.1.4.1.27404.3.3.6.1.1.2.0

3. Wiegand 1 Last Card

MIB Name: wiegand1LastCard

OID Number: .1.3.6.1.4.1.27404.3.3.6.1.1.3.0

4. Wiegand 1 Last Card Time

MIB Name: wiegand1LastCardTime

OID Number: .1.3.6.1.4.1.27404.3.3.6.1.1.4.0

5. Wiegand 1 Last Card Severity

MIB Name: wiegand1LastCardSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.6.1.1.5.0

6. Wiegand 1 Last Card Event Type

MIB Name: wiegand1LastCardEventType

OID Number: .1.3.6.1.4.1.27404.3.3.6.1.1.6.0

7. Wiegand 1 Failures

MIB Name: wiegand1Failures

OID Number: .1.3.6.1.4.1.27404.3.3.6.1.1.7.0

wiegandStatus:**wiegand2: WIEGAND CARD READER INPUT 2 OBJECTS**

The managed objects described in this section are both READ-WRITE.

1. Wiegand 2 Disabled Card ACK

MIB Name: wiegand2DisabledACK

OID Number: .1.3.6.1.4.1.27404.3.3.6.1.2.1.0

2. Wiegand 2 Enabled Card ACK

MIB Name: wiegand2EnabledACK

OID Number: .1.3.6.1.4.1.27404.3.3.6.1.2.2.0

3. Wiegand 2 Last Card

MIB Name: wiegand2LastCard

OID Number: .1.3.6.1.4.1.27404.3.3.6.1.2.3.0

4. Wiegand 2 Last Card Time

MIB Name: wiegand2LastCardTime

OID Number: .1.3.6.1.4.1.27404.3.3.6.1.2.4.0

5. Wiegand 2 Last Card Severity

MIB Name: wiegand2LastCardSeverity

OID Number: .1.3.6.1.4.1.27404.3.3.6.1.2.5.0

6. Wiegand 2 Last Card Event Type

MIB Name: wiegand2LastCardEventType

OID Number: .1.3.6.1.4.1.27404.3.3.6.1.2.6.0

7. Wiegand 2 Failures

MIB Name: wiegand2Failures

OID Number: .1.3.6.1.4.1.27404.3.3.6.1.2.7.0

sctOther:**reset: DEVICE RESET OBJECTS**

The managed objects described in this section are both READ-WRITE.

1. Reset Device

MIB Name: resetDevice

OID Number: .1.3.6.1.4.1.27404.3.3.99.1.1.0

debug: DEVICE DEBUG OBJECTS

The managed objects described in this section are both READ-WRITE.

1. Send All Enabled Input or Event Trap Messages

MIB Name: sendAll

OID Number: .1.3.6.1.4.1.27404.3.3.99.2.1.0

acknowledgement: DEVICE ACKNOWLEDGEMENT OBJECTS

The managed objects described in this section are both READ-WRITE.

1. Acknowledge All Trap Messages

MIB Name: ackAll

OID Number: .1.3.6.1.4.1.27404.3.3.99.3.1.0